

nta

Question Paper Name :	B PLANNING AND B ARCH H 23rd Feb 2021 Shift 2
Subject Name :	B PLANNING AND B ARCH H
Creation Date :	2021-02-22 21:06:55
Duration :	210
Number of Questions :	107
Total Marks :	500
Display Marks:	Yes

B PLANNING AND B ARCH H

Group Number :	1
Group Id :	708191146
Group Maximum Duration :	0
Group Minimum Duration :	210
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	500
Is this Group for Examiner? :	No

Mathematics Section A

Section Id :	708191478
Section Number :	1
Section type :	Online

Mandatory or Optional :	Mandatory
Number of Questions :	20
Number of Questions to be attempted :	20
Section Marks :	80
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	708191758
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 70819113642 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The value of the integral $\int_{-4}^4 |9 - x^2| dx$ is :

Options :

70819145171. $\frac{121}{3}$

70819145172. $\frac{122}{3}$

70819145173. $\frac{125}{3}$

70819145174. $\frac{128}{3}$

Question Number : 1 Question Id : 70819113642 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

समाकलन $\int_{-4}^4 |9-x^2| dx$ का मान है :

Options :

70819145171. $\frac{121}{3}$

70819145172. $\frac{122}{3}$

70819145173. $\frac{125}{3}$

70819145174. $\frac{128}{3}$

Question Number : 2 Question Id : 70819113643 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The sum of infinite number of terms of a Geometric Progression is 3 and the sum of the squares of its terms is $\frac{9}{2}$. The sum of the cubes of its terms is :

Options :

70819145175. $\frac{31}{13}$

70819145176. $\frac{108}{13}$

70819145177. $\frac{27}{2}$

70819145178. $\frac{54}{7}$

Question Number : 2 Question Id : 70819113643 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

एक गुणोत्तर श्रेणी के अनन्त पदों का योग 3 है तथा इसके पदों के वर्गों का योग $\frac{9}{2}$ है, तो इसके पदों के घनों का योग है :

Options :

70819145175. $\frac{31}{13}$

70819145176. $\frac{108}{13}$

70819145177. $\frac{27}{2}$

70819145178. $\frac{54}{7}$

Question Number : 3 Question Id : 70819113644 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following Boolean expression is a tautology ?

Options :

70819145179. $P \Leftrightarrow P \vee Q$

70819145180. $(P \wedge Q) \Leftrightarrow P$

70819145181. $(P \wedge (\sim P \vee Q)) \vee (\sim Q)$

70819145182. $(p \vee \sim p) \wedge (q \vee (\sim q))$

Question Number : 3 Question Id : 70819113644 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

निम्न में से कौन-सा बूलीय व्यंजक पुनरुक्ति है ?

Options :

70819145179. $p \Leftrightarrow p \vee q$

70819145180. $(p \wedge q) \Leftrightarrow p$

70819145181. $(p \wedge (\sim p \vee q)) \vee (\sim q)$

70819145182. $(p \vee \sim p) \wedge (q \vee (\sim q))$

Question Number : 4 Question Id : 70819113645 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Let $|a| < 1, |b| < 1, |c| < 1$ and $x = \sum_{n=0}^{\infty} a^n, y = \sum_{n=0}^{\infty} b^n, z = \sum_{n=0}^{\infty} c^n$. If $\frac{1}{x}, \frac{1}{y}, \frac{1}{z}$ are in Arithmetic

Progression, then :

Options :

70819145183. a, b and c are in Arithmetic Progression

70819145184. a, b and c are in Geometric Progression

70819145185. a, 2b and c are in Arithmetic Progression

70819145186. a, b and c satisfy $2b^2 = ac$

Question Number : 4 Question Id : 70819113645 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

माना $|a| < 1, |b| < 1, |c| < 1$ हैं तथा $x = \sum_{n=0}^{\infty} a^n, y = \sum_{n=0}^{\infty} b^n$ और $z = \sum_{n=0}^{\infty} c^n$ हैं। यदि $\frac{1}{x}, \frac{1}{y}, \frac{1}{z}$ समांतर श्रेढ़ी में हैं, तो :

Options :

70819145183. a, b तथा c समांतर श्रेढ़ी में हैं

70819145184. a, b तथा c गुणोत्तर श्रेढ़ी में हैं

70819145185. $a, 2b$ तथा c समांतर श्रेढ़ी में हैं

70819145186. a, b तथा $c, 2b^2 = ac$ को संतुष्ट करते हैं

Question Number : 5 Question Id : 70819113646 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

$\sum_{n=1}^{\infty} \frac{2n^2 + 7n + 5}{n!}$ is equal to :

Options :

70819145187. $15e + 5$

70819145188. $15e - 5$

70819145189. $16e - 5$

70819145190. $16e - 7$

Question Number : 5 Question Id : 70819113646 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

$\sum_{n=1}^{\infty} \frac{2n^2 + 7n + 5}{n!}$ बराबर है :

Options :

70819145187. $15e + 5$

70819145188. $15e - 5$

70819145189. $16e - 5$

70819145190. $16e - 7$

Question Number : 6 Question Id : 70819113647 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The least positive integral value of λ such that $10^{50} + (3 \times (4)^{52}) + \lambda$ is divisible by 9 is :

Options :

70819145191. 5

70819145192. 3

70819145193. 7

70819145194. 1

Question Number : 6 Question Id : 70819113647 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

λ का निम्नतम धनात्मक पूर्णांक मान, जिसके लिये $10^{50} + (3 \times (4)^{52}) + \lambda$, 9 से विभाज्य है, है :

Options :

70819145191. 5

70819145192. 3

70819145193. 7

70819145194. 1

Question Number : 7 Question Id : 70819113648 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

There are 4, 5 and 6 points on the three parallel and co-planar lines. If no set of four or more points is cyclic and no set of three points lying on distinct lines is collinear, then the number of circles passing through exactly three points is :

Options :

70819145195. 455

70819145196. 421

70819145197. 435

70819145198. 441

Question Number : 7 Question Id : 70819113648 Question Type : MCQ Opt

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

तीन समान्तर तथा समतलीय रेखाओं पर 4, 5 तथा 6 बिन्दु हैं। यदि चार या उससे अधिक बिन्दुओं का कोई भी समूह एक चक्र में नहीं है तथा तीन बिन्दुओं का कोई भी समूह, जो विभिन्न रेखाओं पर स्थित हैं, संरेख नहीं है, तो उन वृत्तों की संख्या, जो ठीक तीन बिन्दुओं से होकर जाते हैं, है।

Options :

70819145195. 455

70819145196. 421

70819145197. 435

70819145198. 441

Question Number : 8 Question Id : 70819113649 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

If $y = \frac{ax - b}{(x - 1)(x - 4)}$ has an extremum at the point $(2, -1)$, then the values of a and b are :

Options :

70819145199. $a = 1, b = 0$

70819145200. $a = 0, b = 1$

70819145201. $a = 0, b = -1$

70819145202. $a = -1, b = 1$

Question Number : 8 Question Id : 70819113649 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

यदि $y = \frac{ax - b}{(x - 1)(x - 4)}$ का एक चरम बिन्दु $(2, -1)$ पर है, तो a तथा b के मान हैं :

Options :

70819145199. $a = 1, b = 0$

70819145200. $a = 0, b = 1$

70819145201. $a = 0, b = -1$

70819145202. $a = -1, b = 1$

Question Number : 9 Question Id : 70819113650 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The distance between the planes $\vec{r} \cdot (2\hat{i} + \hat{j} - 2\hat{k}) + 5 = 0$ and $\vec{r} \cdot (6\hat{i} + 3\hat{j} - 6\hat{k}) + 2 = 0$ is :

Options :

70819145203. $\frac{9}{13}$

70819145204. $\frac{15}{4}$

70819145205. $\frac{13}{9}$

70819145206. $\frac{1}{13}$

Question Number : 9 Question Id : 70819113650 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

दो समतलों $\vec{r} \cdot (2\hat{i} + \hat{j} - 2\hat{k}) + 5 = 0$ तथा $\vec{r} \cdot (6\hat{i} + 3\hat{j} - 6\hat{k}) + 2 = 0$ के बीच की दूरी है :

Options :

70819145203. $\frac{9}{13}$

70819145204. $\frac{15}{4}$

70819145205. $\frac{13}{9}$

70819145206. $\frac{1}{13}$

Question Number : 10 Question Id : 70819113651 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The probability of solving a problem in Mathematics by two students X and Y are $\frac{1}{4}$ and $\frac{1}{5}$ respectively. If both of them try to solve the problem independently, then the probability that the problem will be solved by exactly one of them is equal to :

Options :

70819145207. $\frac{7}{20}$

70819145208. $\frac{1}{20}$

70819145209. $\frac{19}{20}$

70819145210. $\frac{12}{20}$

Question Number : 10 Question Id : 70819113651 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

दो विद्यार्थियों X तथा Y, के गणित के एक प्रश्न को हल करने की प्रायिकता क्रमशः $\frac{1}{4}$ तथा $\frac{1}{5}$ है। यदि दोनों उस प्रश्न को स्वतंत्र रूप से हल करने का प्रयत्न करते हैं, तो उस प्रश्न के उनमें से ठीक एक के द्वारा हल होने की प्रायिकता है :

Options :

70819145207. $\frac{7}{20}$

70819145208. $\frac{1}{20}$

70819145209. $\frac{19}{20}$

70819145210. $\frac{12}{20}$

Question Number : 11 Question Id : 70819113652 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The polar form of the complex number $\frac{1+i}{1-i}$ is equal to :

Options :

70819145211. $\cos \frac{\pi}{2} + i \sin \frac{\pi}{2}$

70819145212. $\cos \frac{\pi}{2} - i \sin \frac{\pi}{2}$

70819145213. $\cos \frac{\pi}{4} + i \sin \frac{\pi}{4}$

70819145214. $\cos \frac{\pi}{4} - i \sin \frac{\pi}{4}$

Question Number : 11 Question Id : 70819113652 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

सम्मिश्र संख्या $\frac{1+i}{1-i}$ का ध्रुवीय रूप है :

Options :

70819145211. $\cos \frac{\pi}{2} + i \sin \frac{\pi}{2}$

70819145212. $\cos \frac{\pi}{2} - i \sin \frac{\pi}{2}$

70819145213. $\cos \frac{\pi}{4} + i \sin \frac{\pi}{4}$

70819145214. $\cos \frac{\pi}{4} - i \sin \frac{\pi}{4}$

Question Number : 12 Question Id : 70819113653 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

If the equation of a line which divides the line segment joining the points $(1, 0)$ and $(3, 0)$ in the ratio $2 : 1$ and is also perpendicular to it, is $ax = 7$, then the value of a is equal to :

Options :

70819145215. ²

70819145216. ³

70819145217. ⁴

70819145218. ¹

Question Number : 12 Question Id : 70819113653 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

यदि उस रेखा का समीकरण, जो बिन्दुओं $(1, 0)$ तथा $(3, 0)$ को मिलाने वाले रेखाखंड को $2 : 1$ के अनुपात में काटती है तथा इस पर लम्बवत भी है, $ax = 7$ है, तो a का मान बराबर है :

Options :

70819145215. ²

70819145216. ³

70819145217. ⁴

70819145218. ¹

Question Number : 13 Question Id : 70819113654 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Equation of the circle, which is the mirror image of the circle $x^2 + y^2 - 2x = 0$ with respect to the line $x + y = 2$, is :

Options :

70819145219. $x^2 + y^2 - 2x + 4y + 3 = 0$

70819145220. $x^2 + y^2 - 4x - 2y + 4 = 0$

70819145221. $2(x^2 + y^2) - x + y + 1 = 0$

70819145222. $x^2 + y^2 - 2x - 4y + 3 = 0$

Question Number : 13 Question Id : 70819113654 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

रेखा, $x + y = 2$ के सापेक्ष, वृत्त, $x^2 + y^2 - 2x = 0$ के दर्पण प्रतिबिम्ब वृत्त का समीकरण है :

Options :

70819145219. $x^2 + y^2 - 2x + 4y + 3 = 0$

70819145220. $x^2 + y^2 - 4x - 2y + 4 = 0$

70819145221. $2(x^2 + y^2) - x + y + 1 = 0$

70819145222. $x^2 + y^2 - 2x - 4y + 3 = 0$

Question Number : 14 Question Id : 70819113655 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Equations of the common tangent of the ellipse $\frac{(x+1)^2}{2^2} + \frac{(y-1)^2}{3^2} = 1$ and the circle

$(x+1)^2 + (y-1)^2 = 4$ are :

Options :

70819145223. $y+3=0$ and $x-1=0$

70819145224. $x-3=0$ and $y+1=0$

70819145225. $x+3=0$ and $x-1=0$

70819145226. $y+3=0$ and $y-1=0$

Question Number : 14 Question Id : 70819113655 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

दीर्घवृत्त $\frac{(x+1)^2}{2^2} + \frac{(y-1)^2}{3^2} = 1$ तथा वृत्त, $(x+1)^2 + (y-1)^2 = 4$ की उभयनिष्ठ स्पर्श रेखाओं के समीकरण हैं।

Options :

70819145223. $y+3=0$ तथा $x-1=0$

70819145224. $x-3=0$ तथा $y+1=0$

70819145225. $x+3=0$ तथा $x-1=0$

70819145226. $y+3=0$ तथा $y-1=0$

Question Number : 15 Question Id : 70819113656 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

If $A = \begin{bmatrix} 1 & a \\ 0 & 1 \end{bmatrix}$, then A^k ($k \in \mathbb{N}$) is :

Options :

70819145227. $\begin{bmatrix} 1 & ka \\ 0 & 1 \end{bmatrix}$

70819145228. $\begin{bmatrix} 1 & k^2a \\ 0 & 1 \end{bmatrix}$

70819145229. $\begin{bmatrix} k & ka \\ 0 & k \end{bmatrix}$

70819145230. $\begin{bmatrix} 1 & ka \\ 0 & 0 \end{bmatrix}$

Question Number : 15 Question Id : 70819113656 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

यदि $A = \begin{bmatrix} 1 & a \\ 0 & 1 \end{bmatrix}$ है, तो $A^k (k \in \mathbb{N})$ बराबर है :

Options :

70819145227. $\begin{bmatrix} 1 & ka \\ 0 & 1 \end{bmatrix}$

70819145228. $\begin{bmatrix} 1 & k^2a \\ 0 & 1 \end{bmatrix}$

70819145229. $\begin{bmatrix} k & ka \\ 0 & k \end{bmatrix}$

70819145230. $\begin{bmatrix} 1 & ka \\ 0 & 0 \end{bmatrix}$

Question Number : 16 Question Id : 70819113657 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The values of s and t , for which the system of equations

$$x_1 + x_2 + x_3 = 5$$

$$x_1 + 2x_2 + 3x_3 = 9$$

$$x_1 + 3x_2 + sx_3 = t$$

has no solution, are :

Options :

70819145231. $s = 5, t = 13$

70819145232. $s \neq 5$

70819145233. $s = 5, t \neq 13$

70819145234. $t \neq 13$

Question Number : 16 Question Id : 70819113657 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

s तथा t के वे मान, जिनके लिए समीकरण निकाय

$$x_1 + x_2 + x_3 = 5$$

$$x_1 + 2x_2 + 3x_3 = 9$$

$$x_1 + 3x_2 + sx_3 = t$$

का कोई हल नहीं है, हैं

Options :

70819145231. $s = 5, t = 13$

70819145232. $s \neq 5$

70819145233. $s = 5, t \neq 13$

70819145234. $t \neq 13$

Question Number : 17 Question Id : 70819113658 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Derivative of $\tan^{-1}\left(\frac{2x}{1-x^2}\right)$ with respect to $\sin^{-1}\left(\frac{2x}{1+x^2}\right)$ in $(1, \infty)$, is :

Options :

70819145235. 1

70819145236. -1

70819145237. 0

70819145238. 2

Question Number : 17 Question Id : 70819113658 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

अन्तराल $(1, \infty)$ में, $\tan^{-1}\left(\frac{2x}{1-x^2}\right)$ का, $\sin^{-1}\left(\frac{2x}{1+x^2}\right)$ के सापेक्ष अवकलज है :

Options :

70819145235. 1

70819145236. -1

70819145237. 0

70819145238. ²

Question Number : 18 Question Id : 70819113659 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Let $\vec{a}$, $\vec{b}$ and $\vec{c}$ be three vectors such that $|\vec{a}| = |\vec{b}| = \frac{|\vec{c}|}{2} = 1$. If $\vec{a} \times (\vec{a} \times \vec{c}) + \vec{b} = \vec{0}$, then

the acute angle between $\vec{a}$ and $\vec{c}$ is :

Options :

70819145239. $\frac{\pi}{6}$

70819145240. $\frac{\pi}{4}$

70819145241. $\frac{\pi}{3}$

70819145242. $\frac{5\pi}{12}$

Question Number : 18 Question Id : 70819113659 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

माना $\vec{a}$, $\vec{b}$ तथा $\vec{c}$ तीन सदिश हैं, जिनके लिए $|\vec{a}| = |\vec{b}| = \frac{|\vec{c}|}{2} = 1$ हैं। यदि $\vec{a} \times (\vec{a} \times \vec{c}) + \vec{b} = \vec{0}$ है, तो

सदिशों $\vec{a}$ तथा $\vec{c}$ के बीच का न्यूनकोण है :

Options :

70819145239. $\frac{\pi}{6}$

70819145240. $\frac{\pi}{4}$

70819145241. $\frac{\pi}{3}$

70819145242. $\frac{5\pi}{12}$

Question Number : 19 Question Id : 70819113660 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Solution of the differential equation $(1 + y^2)dx = (\tan^{-1}y - x)dy$ is :
(where c is an arbitrary constant)

Options :

70819145243. $x = 1 - \tan^{-1}y + ce^{-\tan^{-1}y}$

70819145244. $y = \tan^{-1}y - 1 + ce^{-\tan^{-1}x}$

70819145245. $x = \tan^{-1}y - 1 + ce^{-\tan^{-1}y}$

70819145246. $x = -\tan^{-1}y - 1 - ce^{\tan^{-1}x}$

Question Number : 19 Question Id : 70819113660 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

अवकल समीकरण $(1+y^2)dx = (\tan^{-1}y - x)dy$ का हल है :
(जबकि c एक स्वेच्छ अचर है)

Options :

70819145243. $x = 1 - \tan^{-1}y + ce^{-\tan^{-1}y}$

70819145244. $y = \tan^{-1}y - 1 + ce^{-\tan^{-1}x}$

70819145245. $x = \tan^{-1}y - 1 + ce^{-\tan^{-1}y}$

70819145246. $x = -\tan^{-1}y - 1 - ce^{\tan^{-1}x}$

Question Number : 20 Question Id : 70819113661 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The values of x , for which the vectors $\vec{a} = (x^2 - 16)\hat{i} + 4\hat{j} - (x^2 - 25)\hat{k}$ make acute angles with the (positive directions of) coordinate axes lie in :

Options :

70819145247. $[-5, -4] \cup [4, 5]$

70819145248. $[-5, 4) \cup (-4, 5]$

70819145249. $(-5, -4) \cup (4, 5)$

70819145250. $(-5, 4) \cup (-4, 5)$

Question Number : 20 Question Id : 70819113661 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

x के मान, जिनके लिए सदिश $\vec{a} = (x^2 - 16)\hat{i} + 4\hat{j} - (x^2 - 25)\hat{k}$ निर्देशांक अक्षों की धनात्मक दिशाओं के साथ न्यूनकोण बनाते हैं, निम्न में से किस में स्थित हैं?

Options :

70819145247. $[-5, -4] \cup [4, 5]$

70819145248. $[-5, 4) \cup (-4, 5]$

70819145249. $(-5, -4) \cup (4, 5)$

70819145250. $(-5, 4) \cup (-4, 5)$

Mathematics Section B

Section Id :	708191479
Section Number :	2
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	10
Number of Questions to be attempted :	5
Section Marks :	20
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	708191759
Question Shuffling Allowed :	Yes

Question Number : 21 Question Id : 70819113662 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

$\int_0^{\pi} \sqrt{\frac{1 + \cos 2x}{2}} dx$ is _____.

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

5 to 5.001

Question Number : 21 Question Id : 70819113662 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

$\int_0^{\pi} \sqrt{\frac{1 + \cos 2x}{2}} dx$ बराबर _____।

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

5 to 5.001

Question Number : 22 Question Id : 70819113663 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

The minimum value of $9\tan^2\theta + 4\cot^2\theta$ is _____.

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

5 to 5.001

Question Number : 22 Question Id : 70819113663 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

$9 \tan^2 \theta + 4 \cot^2 \theta$ का न्यूनतम मान है _____।

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

5 to 5.001

Question Number : 23 Question Id : 70819113664 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

The length of the perpendicular from the point $(1, 2, 3)$ to the line $\frac{-x+6}{-3} = \frac{y-7}{2} = \frac{z-7}{-2}$ is _____.

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

5 to 5.001

Question Number : 23 Question Id : 70819113664 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

बिन्दु $(1, 2, 3)$ से रेखा $\frac{-x+6}{-3} = \frac{y-7}{2} = \frac{z-7}{-2}$ पर डाले गए लम्ब की लम्बाई है _____।

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

5 to 5.001

Question Number : 24 Question Id : 70819113665 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

If $\log_3 2$, $\log_3 (2^x - 5)$ and $\log_3 \left(2^x - \frac{7}{2}\right)$ are in Arithmetic Progression, then the value of x is _____.

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

5 to 5.001

Question Number : 24 Question Id : 70819113665 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

यदि $\log_3 2$, $\log_3 (2^x - 5)$ तथा $\log_3 \left(2^x - \frac{7}{2}\right)$ समांतर श्रेणी में हैं, तो x बराबर है _____।

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

5 to 5.001

Question Number : 25 Question Id : 70819113666 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

If $x^2 + x + 1 = 0$, then $-\left\{\left(x - \frac{1}{x}\right)^2 + \left(x^2 - \frac{1}{x^2}\right)^2 + \left(x^3 - \frac{1}{x^3}\right)^2\right\}$ is _____.

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

5 to 5.001

Question Number : 25 Question Id : 70819113666 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

यदि $x^2 + x + 1 = 0$ है, तो $-\left\{\left(x - \frac{1}{x}\right)^2 + \left(x^2 - \frac{1}{x^2}\right)^2 + \left(x^3 - \frac{1}{x^3}\right)^2\right\}$ बराबर है _____।

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

5 to 5.001

Question Number : 26 Question Id : 70819113667 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

$x^2 + y^2 - 4x - 2y - 11 = 0$ is a circle to which tangents are drawn from the point (4, 5) which form a quadrilateral with a pair of radii. The area of this quadrilateral in square units is _____.

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

5 to 5.001

Question Number : 26 Question Id : 70819113667 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

बिन्दु (4, 5) से वृत्त $x^2 + y^2 - 4x - 2y - 11 = 0$ पर खींची गई स्पर्श रेखाएं, दो त्रिज्याओं के साथ एक चतुर्भुज बनाती हैं। इस चतुर्भुज का क्षेत्रफल, वर्ग इकाइयों, में है _____।

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

5 to 5.001

Question Number : 27 Question Id : 70819113668 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

If the sum of mean and variance of a binomial distribution is 15 and the sum of their squares is 117, then the number of independent trials is equal to _____.

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

5 to 5.001

Question Number : 27 Question Id : 70819113668 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

यदि एक द्विपद बंटन के माध्य तथा प्रसरण का योग 15 है और उनके वर्गों का योग 117 है, तो स्वतंत्र अभिप्रयोगों की संख्या है _____।

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

5 to 5.001

Question Number : 28 Question Id : 70819113669 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

Let the equation of the plane passing through the points $(1, 2, 6)$, $(2, 5, 7)$ and perpendicular to the plane $4x - y + z = 15$ be $ax + by + cz + d = 0$. If $a, b, c, d \in \mathbb{Z}$ with $\gcd(|a|, |b|, |c|) = 1$, then $|a + b + c + d|$ is equal to _____.

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

5 to 5.001

Question Number : 28 Question Id : 70819113669 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

माना एक समतल, जो बिन्दुओं $(1, 2, 6)$ तथा $(2, 5, 7)$ से होकर जाता है तथा समतल, $4x - y + z = 15$ के लम्बवत है, का समीकरण $ax + by + cz + d = 0$ है। यदि $a, b, c, d \in \mathbb{Z}$ तथा $\gcd(|a|, |b|, |c|) = 1$ हैं, तो $|a + b + c + d|$ बराबर है _____।

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

5 to 5.001

Question Number : 29 Question Id : 70819113670 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

The number of real solutions in the interval $\left[-\frac{3\pi}{2}, \frac{7\pi}{2}\right]$ of the equation $4\sin^2 x - 8\sin x + 3 = 0$ is _____.

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

5 to 5.001

Question Number : 29 Question Id : 70819113670 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

अन्तराल $\left[-\frac{3\pi}{2}, \frac{7\pi}{2}\right]$ में, समीकरण $4\sin^2 x - 8\sin x + 3 = 0$ के वास्तविक हलों की संख्या है _____।

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

5 to 5.001

Question Number : 30 **Question Id :** 70819113671 **Question Type :** SA

Correct Marks : 4 **Wrong Marks :** 0

Let $A_1, A_2, A_3, \dots$ be an increasing geometric progression. If $\frac{1}{A_4} + \frac{1}{A_8} = \frac{10}{63}$ and $A_5 A_7 = 441$, then $3(A_2 + A_4)$ is equal to _____.

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

5 to 5.001

Question Number : 30 **Question Id :** 70819113671 **Question Type :** SA

Correct Marks : 4 **Wrong Marks :** 0

माना $A_1, A_2, A_3, \dots$ एक वर्धमान गुणोत्तर श्रेणी है। यदि $\frac{1}{A_4} + \frac{1}{A_8} = \frac{10}{63}$ तथा $A_5 A_7 = 441$ हैं, तो $3(A_2 + A_4)$ बराबर है _____।

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

5 to 5.001

Aptitude Test

Section Id :	708191480
Section Number :	3
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	50
Number of Questions to be attempted :	50
Section Marks :	200
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	708191760
Question Shuffling Allowed :	Yes

Question Number : 31 Question Id : 70819113672 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which among the following is the full form of the 'UNESCO' ?

Options :

70819145261. United Nations Educational, Scientific & Cultural Organization.

70819145262. United Nations Educational Security Cultural Organization.

70819145263. United Nations Entrance Site Calling Organization.

70819145264. United Nations Educational, Sustainable & Cultural Organization.

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

निम्न में से 'UNESCO' का पूर्ण रूप (Full form) कौन सा है ?

Options :

70819145261. युनाइटेड नेशंस एडुकेशनल, साइंटिफिक तथा कल्चरल ऑर्गनाइजेशन

70819145262. युनाइटेड नेशंस एडुकेशनल सिक्योरिटी कल्चरल ऑर्गनाइजेशन

70819145263. युनाइटेड नेशंस एंट्रैन्स साइट कालिंग ऑर्गनाइजेशन

70819145264. युनाइटेड नेशंस एडुकेशनल, सस्टेनेबल तथा कल्चरल ऑर्गनाइजेशन

Question Number : 32 Question Id : 70819113673 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

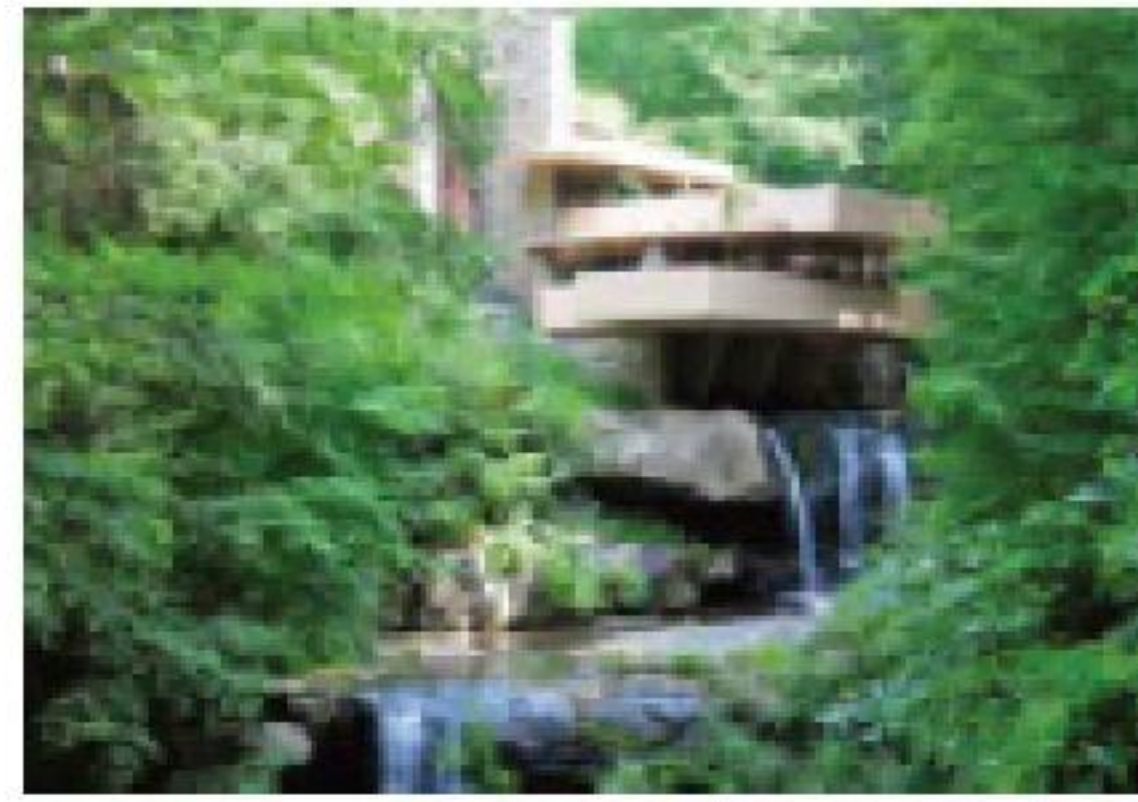
Match List - I with List - II.

List - I

List - II

(I) Hall of Nation

(a)



(II) Falling Water, Pennsylvania

(b)



(III) Petronas Tower

(c)



(IV) Secretariat

(d)



Options :

70819145265. (I)-(b), (II)-(a), (III)-(d), (IV)-(c)

70819145266. (I)-(c), (II)-(d), (III)-(a), (IV)-(b)

70819145267. (I)-(a), (II)-(b), (III)-(c), (IV)-(d)

Question Number : 32 Question Id : 70819113673 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

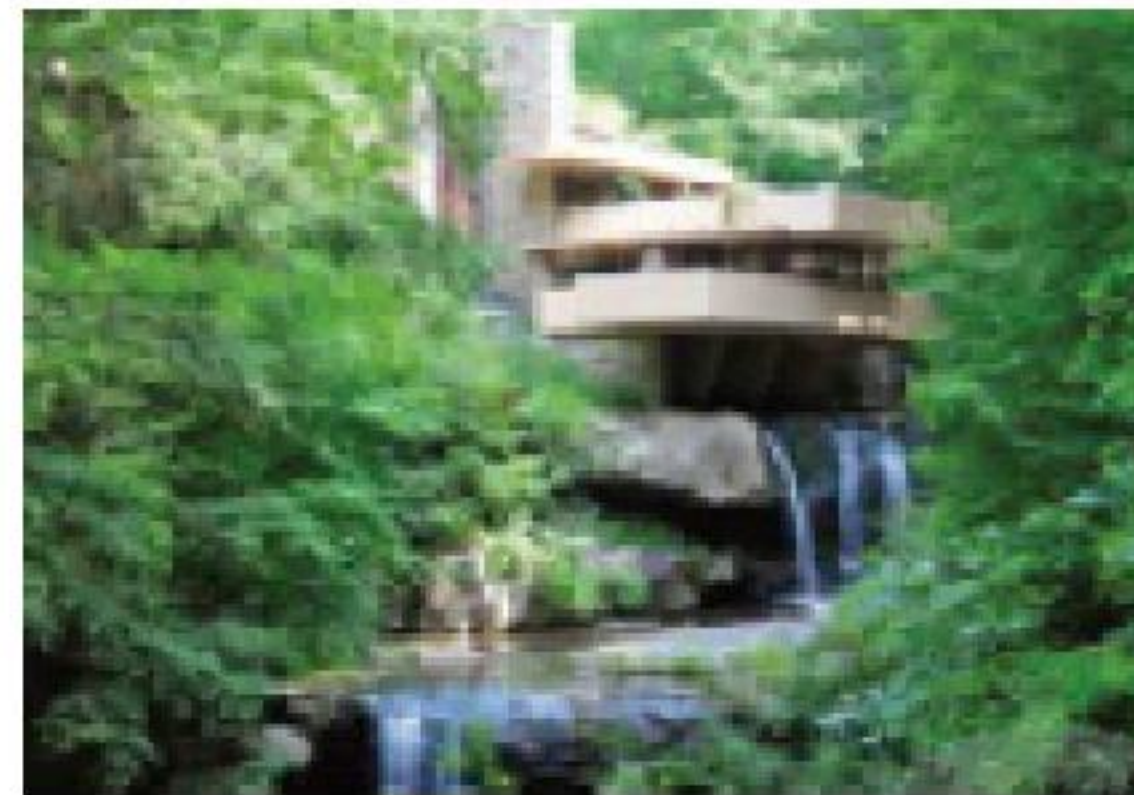
निम्न सूची I को सूची II से मिलाइये।

सूची I

सूची II

(I) हॉल ऑफ नेशन

(a)



(II) फालिंग वॉटर, पेनसिलवानिया

(b)



(III) पेट्रोनास टॉवर

(c)



(IV) सचिवालय

(d)



Options :

70819145265. (I)-(b), (II)-(a), (III)-(d), (IV)-(c)

70819145266. (I)-(c), (II)-(d), (III)-(a), (IV)-(b)

70819145267. (I)-(a), (II)-(b), (III)-(c), (IV)-(d)

70819145268. (I)-(b), (II)-(a), (III)-(c), (IV)-(d)

Question Number : 33 Question Id : 70819113674 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Match List - I with List - II.

List - I	List - II
(I) Kamru	(a) Victoria Memorial Hall
(II) Delhi	(b) Badrinath Temple
(III) Fatehpur Sikri	(c) Khirki Masjid
(IV) Kolkata	(d) Buland Darwaja

Options :

70819145269. (I)-(b), (II)-(c), (III)-(d), (IV)-(a)

70819145270. (I)-(b), (II)-(d), (III)-(c), (IV)-(a)

70819145271. (I)-(c), (II)-(a), (III)-(b), (IV)-(d)

70819145272. (I)-(b), (II)-(a), (III)-(d), (IV)-(c)

Question Number : 33 Question Id : 70819113674 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

निम्न सूची I को सूची II से मिलाइये।

सूची I	सूची II
(I) कामरू	(a) विक्टोरिया मेमोरियल हॉल
(II) दिल्ली	(b) बद्रीनाथ मंदिर
(III) फतेहपुर सीकरी	(c) खिड़की मस्जिद
(IV) कोलकाता	(d) बुलन्द दरवाजा

Options :

70819145269. (I)-(b), (II)-(c), (III)-(d), (IV)-(a)

70819145270. (I)-(b), (II)-(d), (III)-(c), (IV)-(a)

70819145271. (I)-(c), (II)-(a), (III)-(b), (IV)-(d)

70819145272. (I)-(b), (II)-(a), (III)-(d), (IV)-(c)

Question Number : 34 Question Id : 70819113675 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Match List - I with List - II.

List - I

List - II

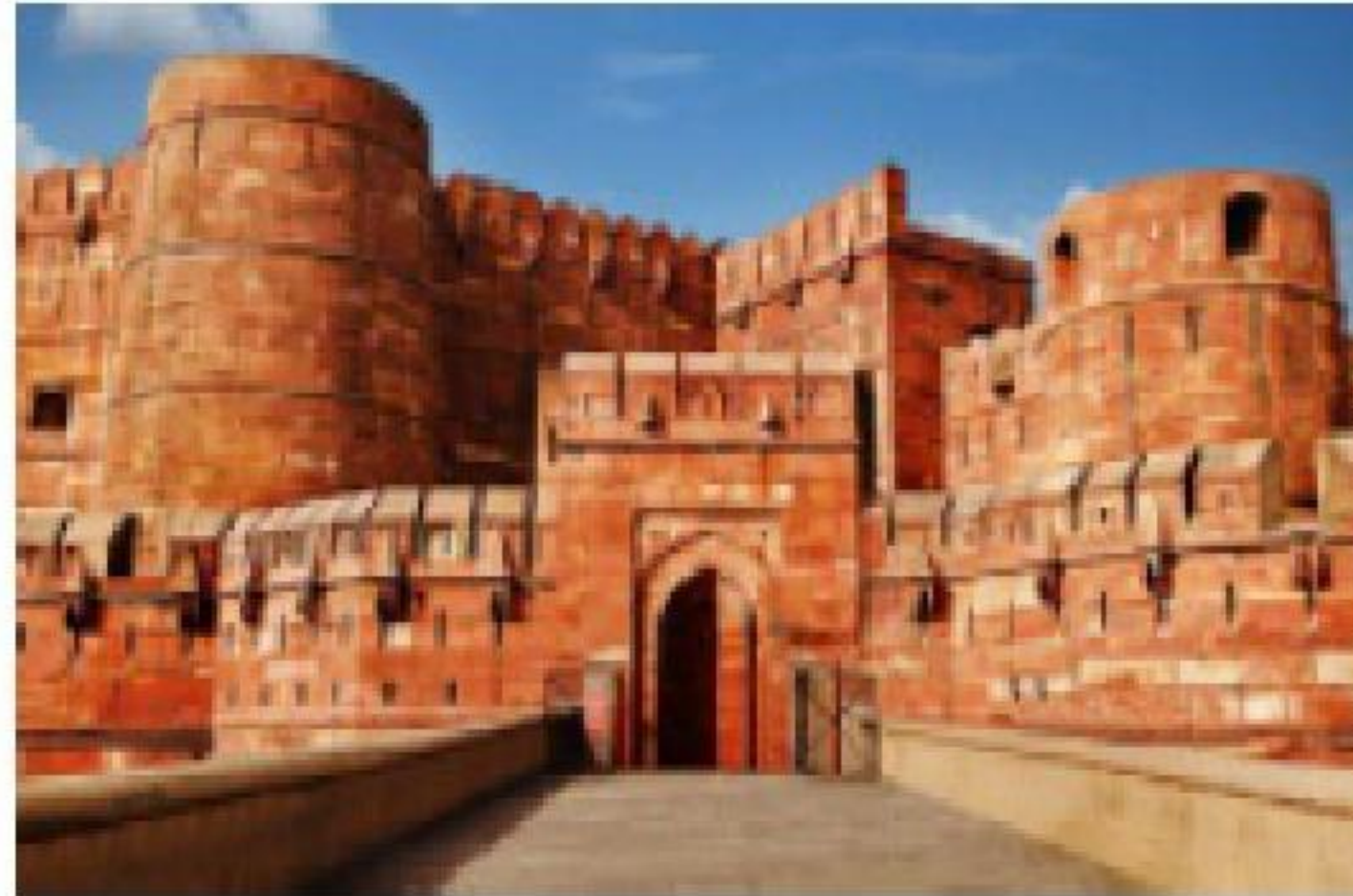
(I) Agra fort

(a)



(II) Atala Masjid

(b)



(III) Nalanda University

(c)



(IV) Jagannatha Temple

(d)



Options :

70819145273. (I)-(b), (II)-(c), (III)-(a), (IV)-(d)

70819145274. (I)-(a), (II)-(b), (III)-(c), (IV)-(d)

70819145275. (I)-(c), (II)-(a), (III)-(d), (IV)-(b)

70819145276. (I)-(b), (II)-(a), (III)-(c), (IV)-(d)

Question Number : 34 Question Id : 70819113675 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

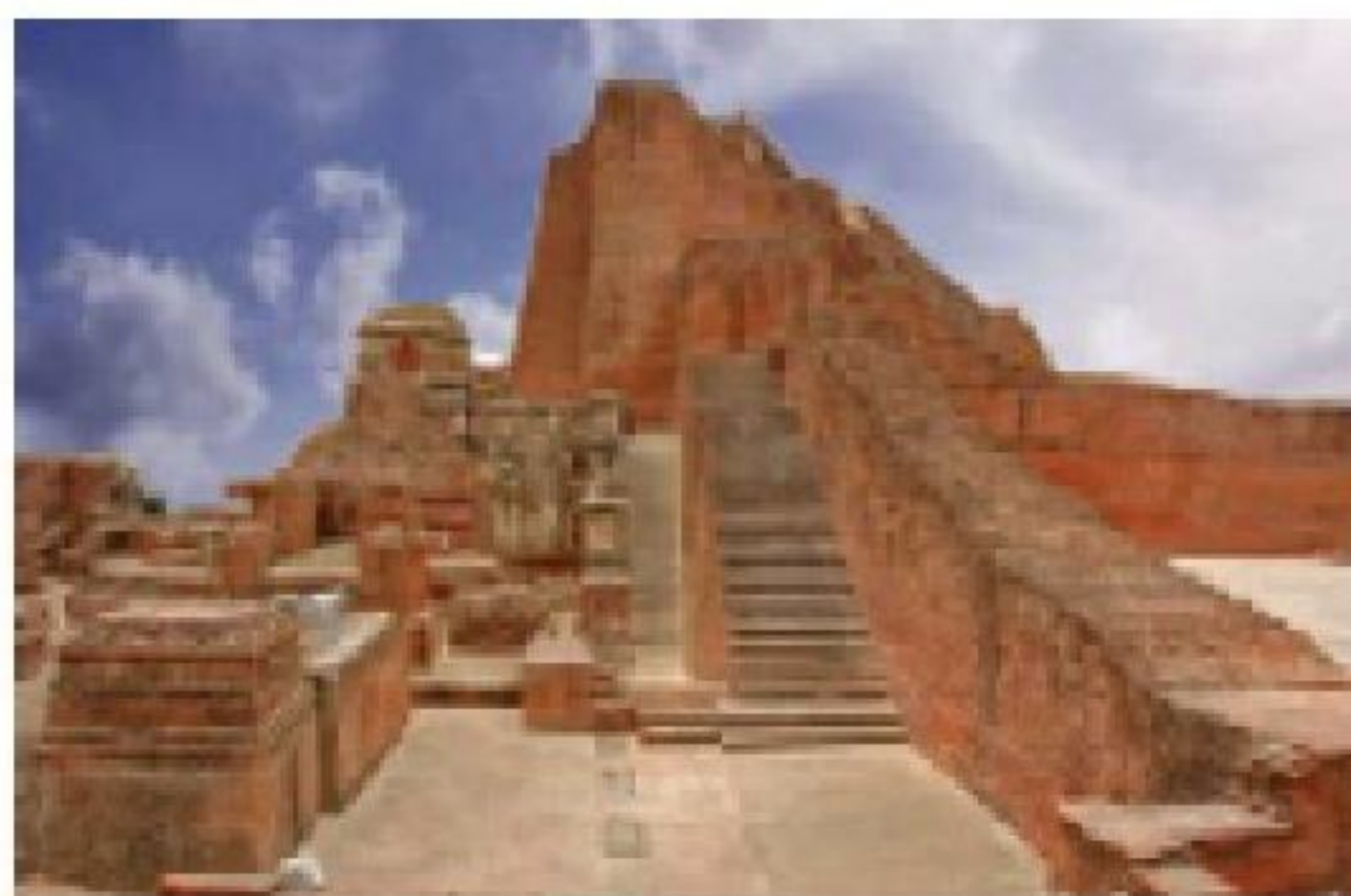
निम्न सूची I को सूची II से मिलाइये।

सूची I

सूची II

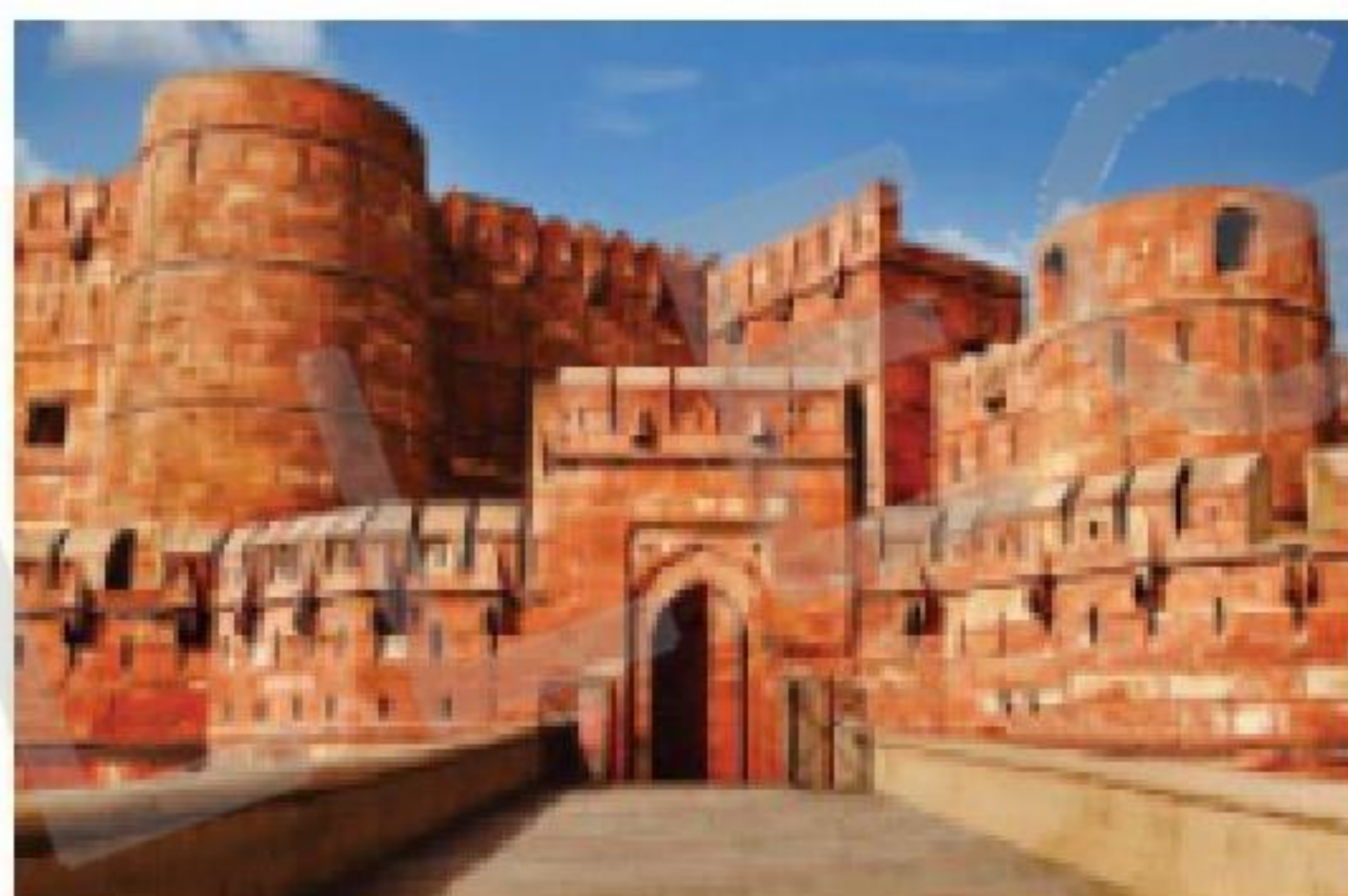
(I) आगरा का किला

(a)



(II) अटाला मस्जिद

(b)



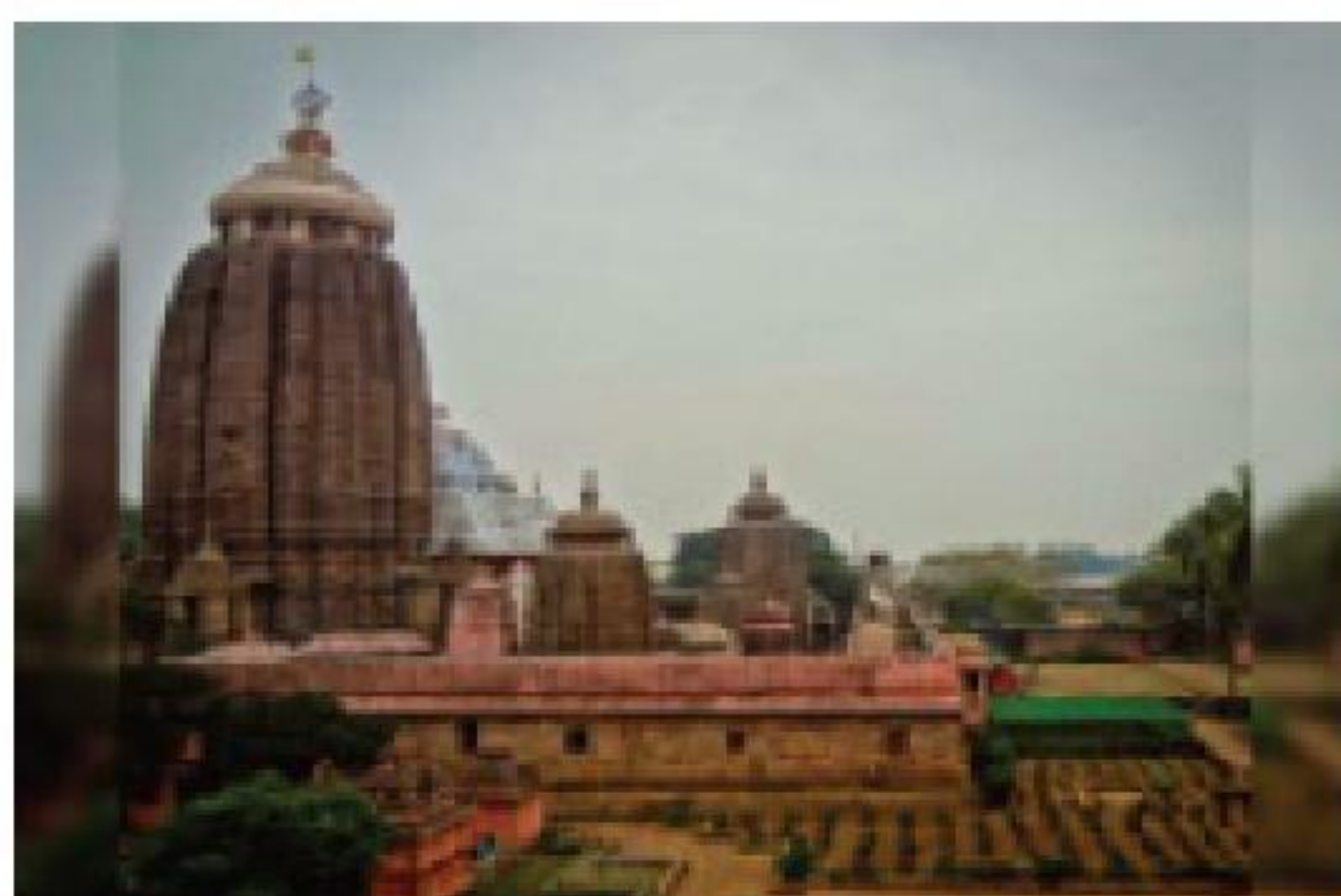
(III) नालन्दा विश्वविद्यालय

(c)



(IV) जगन्नाथ मन्दिर

(d)



Options :

70819145273. (I)-(b), (II)-(c), (III)-(a), (IV)-(d)

70819145274. (I)-(a), (II)-(b), (III)-(c), (IV)-(d)

70819145275. (I)-(c), (II)-(a), (III)-(d), (IV)-(b)

70819145276. (I)-(b), (II)-(a), (III)-(c), (IV)-(d)

Question Number : 35 Question Id : 70819113676 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Match List - I with List - II.

List - I	List - II
(I) Yadvindra Garden	(a) Manali
(II) Vishnu Temple	(b) Amritsar
(III) Hidimba Temple	(c) Pinjore
(IV) Hari Mandir	(d) Buniyar

Options :

70819145277. (I)-(c), (II)-(d), (III)-(b), (IV)-(a)

70819145278. (I)-(c), (II)-(d), (III)-(a), (IV)-(b)

70819145279. (I)-(d), (II)-(b), (III)-(c), (IV)-(a)

70819145280. (I)-(b), (II)-(d), (III)-(a), (IV)-(c)

Question Number : 35 Question Id : 70819113676 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

निम्न सूची I को सूची II से मिलाइये।

सूची I	सूची II
(I) यादविन्द्र गार्डन	(a) मनाली
(II) विष्णु मन्दिर	(b) अमृतसर
(III) हिडिम्बा मन्दिर	(c) पिंजोर
(IV) हरि मन्दिर	(d) बुनियर

Options :

70819145277. (I)-(c), (II)-(d), (III)-(b), (IV)-(a)

70819145278. (I)-(c), (II)-(d), (III)-(a), (IV)-(b)

70819145279. (I)-(d), (II)-(b), (III)-(c), (IV)-(a)

70819145280. (I)-(b), (II)-(d), (III)-(a), (IV)-(c)

Question Number : 36 Question Id : 70819113677 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Match List - I with List - II.

List - I	List - II
(I) Mehrangarh Fort	(a) Hyderabad
(II) Siri Fort	(b) Kolkata
(III) Golconda Fort	(c) Delhi
(IV) Fort William	(d) Jodhpur

Choose the correct answer from options given below :

Options :

70819145281. (I)-(a), (II)-(d), (III)-(b), (IV)-(c)

70819145282. (I)-(d), (II)-(c), (III)-(a), (IV)-(b)

70819145283. (I)-(d), (II)-(c), (III)-(b), (IV)-(a)

70819145284. (I)-(a), (II)-(b), (III)-(d), (IV)-(c)

Question Number : 36 Question Id : 70819113677 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

निम्न सूची I को सूची II से मिलाइये।

सूची I	सूची II
(I) मेहरानगढ़ किला	(a) हैदराबाद
(II) सीरी फोर्ट	(b) कोलकाता
(III) गोलकोंडा किला	(c) दिल्ली
(IV) फोर्ट विलियम	(d) जोधपुर

नीचे दिए विकल्पों में से सही उत्तर चुनिये।

Options :

70819145281. (I)-(a), (II)-(d), (III)-(b), (IV)-(c)

70819145282. (I)-(d), (II)-(c), (III)-(a), (IV)-(b)

70819145283. (I)-(d), (II)-(c), (III)-(b), (IV)-(a)

70819145284. (I)-(a), (II)-(b), (III)-(d), (IV)-(c)

Question Number : 37 Question Id : 70819113678 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Book 'God of small things' is written by which Indian Architect ?

Options :

70819145285. B.V. Doshi

70819145286. Arundhati Roy

70819145287. Revati Kamat

70819145288. Bimal Patel

Question Number : 37 Question Id : 70819113678 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

‘गॉड ऑफ स्माल थिंग्स’ पुस्तक को किस भारतीय वास्तुशिल्पी ने लिखा है ?

Options :

70819145285. बी.वी. दोशी

70819145286. अरुंधती राय

70819145287. रेवती कामत

70819145288. बिमल पटेल

Question Number : 38 Question Id : 70819113679 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

‘Jharokha’ is a type of window mostly found in :

Options :

70819145289. Gujarat

70819145290. West Bengal

70819145291. Tamil Nadu

70819145292. Rajasthan

Question Number : 38 Question Id : 70819113679 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

‘झरोखा’ खिड़की का एक प्रकार, निम्न में से अक्सर किस प्रान्त में पाया जाता है ?

Options :

70819145289. गुजरात

70819145290. पश्चिम बंगाल

70819145291. तमिलनाडु

70819145292. राजस्थान

Question Number : 39 Question Id : 70819113680 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The monsoon wind enters in Indian sub-continent from which direction ?

Options :

70819145293. North-West side

70819145294. South-East side

70819145295. North side

70819145296. South-West side

Question Number : 39 Question Id : 70819113680 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

भारत उपमहाद्वीप में मौनसून हवा किस दिशा से प्रवेश करती है ?

Options :

70819145293. उत्तर-पश्चिम दिशा

70819145294. दक्षिण-पूर्व दिशा

70819145295. उत्तर दिशा

70819145296. दक्षिण-पश्चिम दिशा

Question Number : 40 Question Id : 70819113681 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following building represents the colonial Architectural pattern in India ?

Options :

70819145297. Bharat Bhavan in Bhopal

70819145298. LIC Building in Delhi

70819145299. Charminar in Hyderabad

70819145300. Victoria Memorial in Kolkata

Question Number : 40 Question Id : 70819113681 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

निम्न में से कौनसी इमारत, भारत में 'औपनिवेशिक वास्तु' संबंधी ढंग दर्शाती है?

Options :

70819145297. भोपाल का भारत भवन

70819145298. दिल्ली की LIC इमारत

70819145299. हैदराबाद का चारमिनार

70819145300. कोलकाता का विक्टोरिया मेमोरियल

Question Number : 41 Question Id : 70819113682 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

What is the size of A2 Drawing sheet ?

Options :

70819145301. 420×590 (mm $\times$ mm)

70819145302. 420×594 (mm $\times$ mm)

70819145303. 297×420 (mm $\times$ mm)

70819145304. 420×592 (mm $\times$ mm)

Question Number : 41 Question Id : 70819113682 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

A2 ड्राइंग शीट का आकार है :

Options :

70819145301. 420×590 (mm $\times$ mm)

70819145302. 420×594 (mm $\times$ mm)

70819145303. 297×420 (mm $\times$ mm)

70819145304. 420×592 (mm $\times$ mm)

Question Number : 42 Question Id : 70819113683 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Victory Tower belongs to which of the following fort :

Options :

70819145305. Chittor fort

70819145306. Jaigarh fort

70819145307. Bhangarh fort

70819145308. Amer fort

Question Number : 42 Question Id : 70819113683 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

‘विक्टरी टॉवर’ निम्न में से किस फोर्ट से सम्बंधित है ?

Options :

70819145305. चित्तौड़ फोर्ट

70819145306. जयगढ़ फोर्ट

70819145307. भानगढ़ फोर्ट

70819145308. आमेर फोर्ट

Question Number : 43 Question Id : 70819113684 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which amongst the following Architect has designed the famous Temple "Akshardham" ?

Options :

70819145309. Sanjay Puri

70819145310. Vikram Lall

70819145311. Ashok Lall

70819145312. C. Sompura

Question Number : 43 Question Id : 70819113684 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

सुप्रसिद्ध मन्दिर 'अक्षरधाम' की रूपरेखा निम्न में से किस वास्तुशिल्पी ने बनाई ?

Options :

70819145309. संजय पुरी

70819145310. विक्रम लाल

70819145311. अशोक लाल

70819145312. सी. सोमपुरा

Question Number : 44 Question Id : 70819113685 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

‘Volume Zero’ Documentary is on which Architect ?

Options :

70819145313. Charles Correa

70819145314. Richard Mier

70819145315. Jasbir Sachdev

70819145316. Ranjit Sabliki

Question Number : 44 Question Id : 70819113685 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

‘वालयूम ज़ीरो’ वृत्तचित्र निम्न में से किस वास्तुशिल्पी पर आधारित है ?

Options :

70819145313. चार्ल्स कोरिया

70819145314. रिचर्ड मीयर

70819145315. जसबीर सचदेव

70819145316. रंजीत सबलीकी

Question Number : 45 Question Id : 70819113686 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

'Agenda 21' is declaration related with :

Options :

70819145317. Climate change

70819145318. Global warming

70819145319. Sustainable development

70819145320. Smart city

Question Number : 45 Question Id : 70819113686 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

घोषणा 'एजेन्डा- 21' निम्न में से किस से संबंधित है?

Options :

70819145317. जलवायु परिवर्तन

70819145318. वैश्विक वार्मिंग

70819145319. संधारणीय विकास

70819145320. स्मार्ट सिटी

Question Number : 46 Question Id : 70819113687 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Gold mines are situated in which state of India ?

Options :

70819145321. Karnataka

70819145322. Orissa

70819145323. Maharashtra

70819145324. Uttar Pradesh

Question Number : 46 Question Id : 70819113687 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

निम्न में से भारत के किस प्रांत में सोने की खानें हैं ?

Options :

70819145321. कर्नाटक

70819145322. ओड़ीशा

70819145323. महाराष्ट्र

70819145324. उत्तर प्रदेश

Question Number : 47 Question Id : 70819113688 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

In the Southern Hemisphere shadowless light is from which direction ?

Options :

70819145325. North

70819145326. South

70819145327. East

70819145328. West

Question Number : 47 Question Id : 70819113688 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

दक्षिण गोलार्द्ध में परछाई रहित प्रकाश किस दिशा से आता है ?

Options :

70819145325. उत्तर

70819145326. दक्षिण

70819145327. पूर्व

70819145328. पश्चिम

Question Number : 48 Question Id : 70819113689 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The first Indian Architect who has won Pritzker Prize in 2018 is :

Options :

70819145329. B.V. Doshi

70819145330. Laurie Baker

70819145331. Raj Rewal

70819145332. Achyut Kanvinde

Question Number : 48 Question Id : 70819113689 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

पहला भारतीय वास्तुशिल्पी, जिसने 2018 में प्रिज्जकर इनाम जीता है :

Options :

70819145329. बी.वी. दोशी

70819145330. लॉरी बेकर

70819145331. राज रेवाल

70819145332. अच्युत कानविन्दे

Question Number : 49 Question Id : 70819113690 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Word "Bungalow" has originated from :

Options :

70819145333. Bengalurm

70819145334. Banaras

70819145335. Bengal

70819145336. Bari

Question Number : 49 Question Id : 70819113690 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

‘बंगलो’ (Bungalow) शब्द का उद्गम निम्न में से किस से हुआ ?

Options :

70819145333. बेंगालुरम (Bengalurm)

70819145334. बनारस (Banaras)

70819145335. बंगाल (Bengal)

70819145336. बारी (Bari)

Question Number : 50 Question Id : 70819113691 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The IIM - Ahmedabad is designed by which of the following Architect ?

Options :

70819145337. Laurie Baker

70819145338. Louis Kahn

70819145339. Lutyen

70819145340. Le Corbusier

Question Number : 50 Question Id : 70819113691 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

निम्न में से किस वास्तुशिल्पी द्वारा IIM अहमदाबाद की रूपरेखा बनाई गई ?

Options :

70819145337. लॉरी बेकर

70819145338. लुई कान

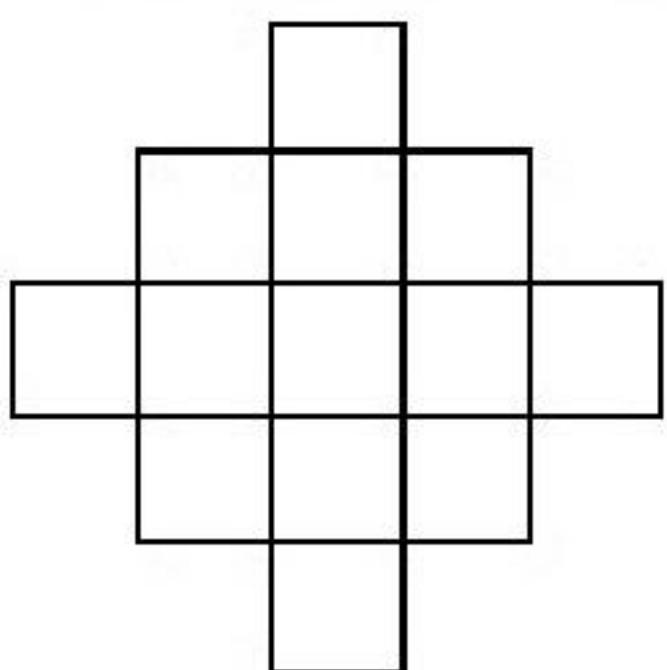
70819145339. ल्युटेन

70819145340. ली कोर्बुज़िर

Question Number : 51 Question Id : 70819113692 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

In the given figure, how many squares are present ?



Options :

70819145341. 14

70819145342. 13

70819145343. 15

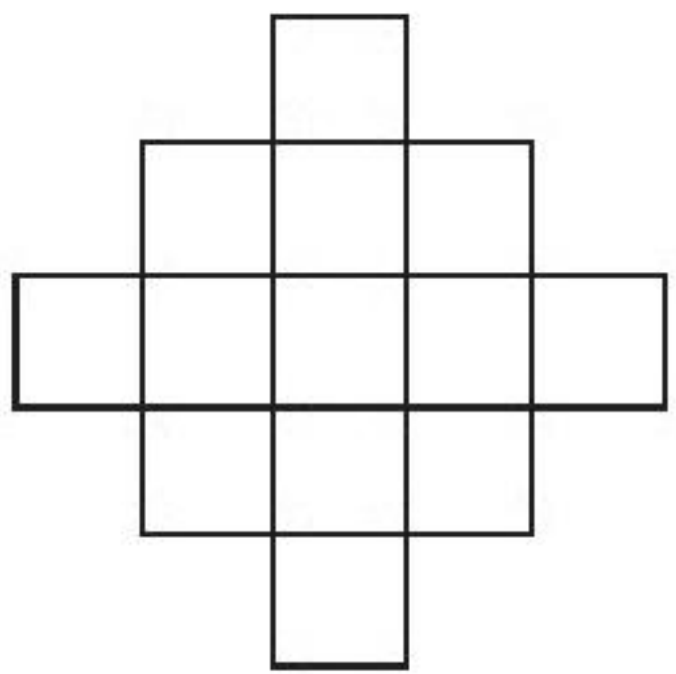
70819145344. 18

Question Number : 51 Question Id : 70819113692 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

नीचे दी गई आकृति में, वर्गों की संख्या है :



Options :

70819145341. 14

70819145342. 13

70819145343. 15

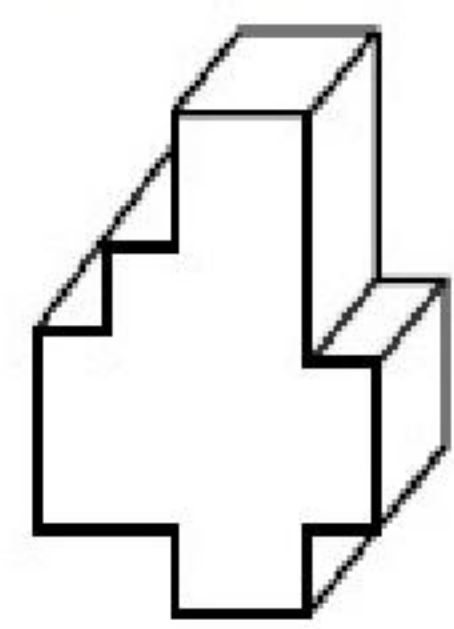
70819145344. 18

Question Number : 52 Question Id : 70819113693 Question Type : MCQ Option Shuffling : Yes

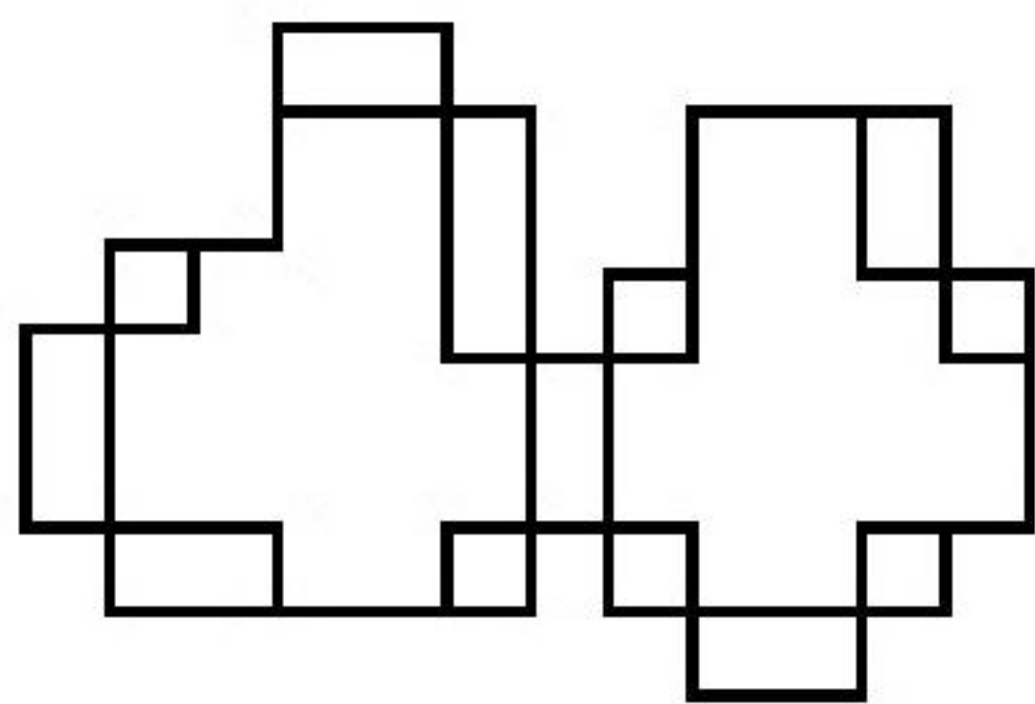
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

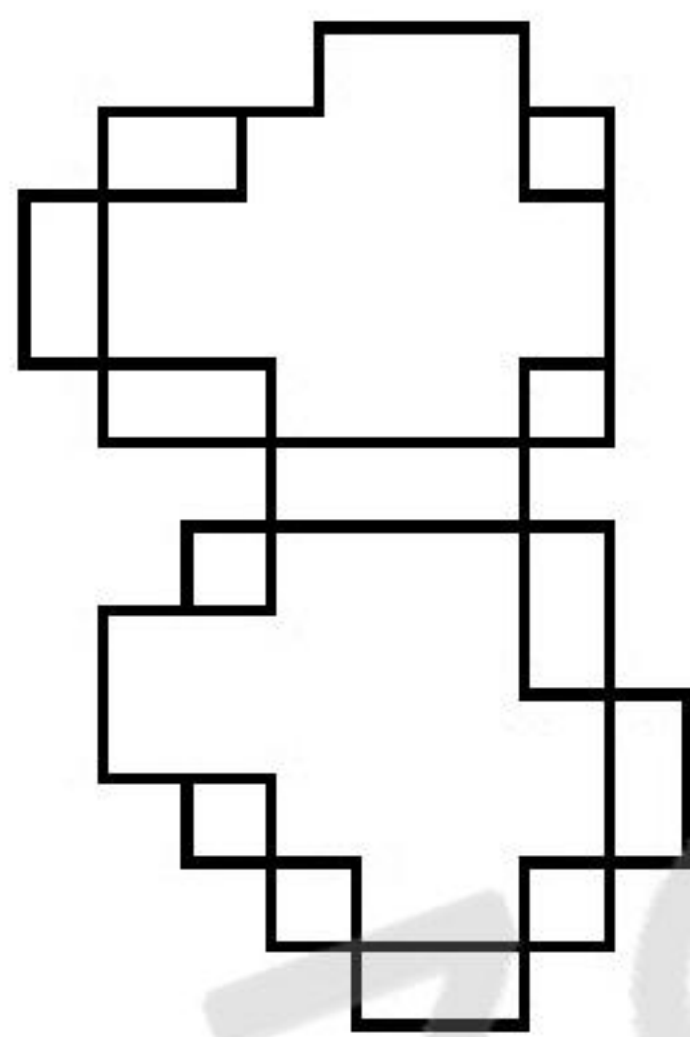
A drawing is provided with all the folds to construct the following three Dimensional object.
Select the correct one.



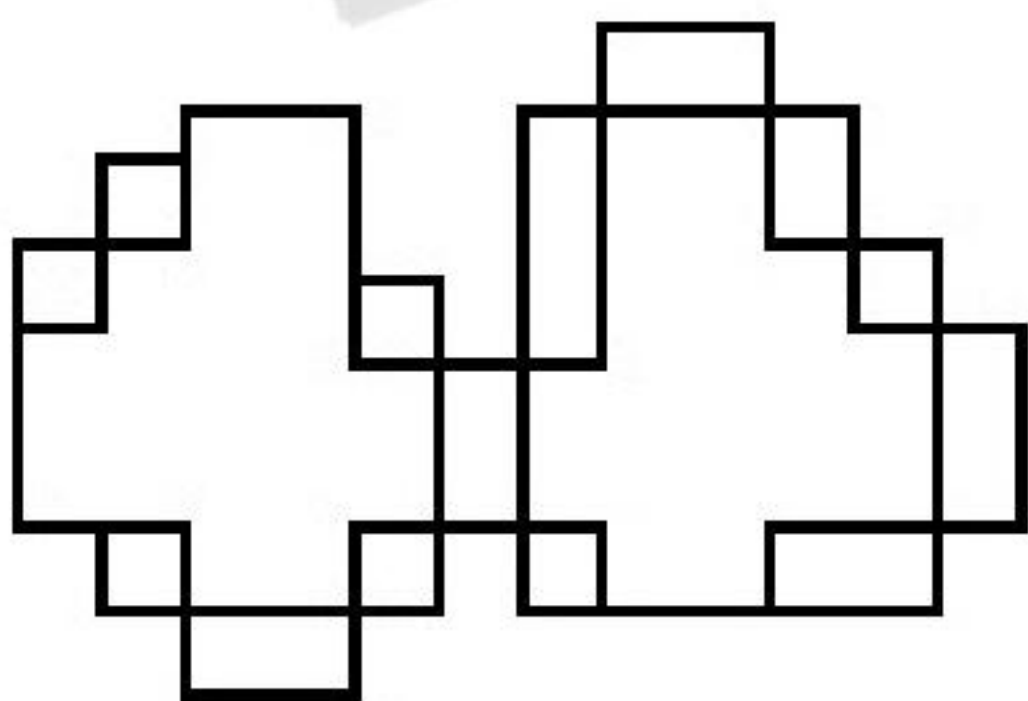
Options :



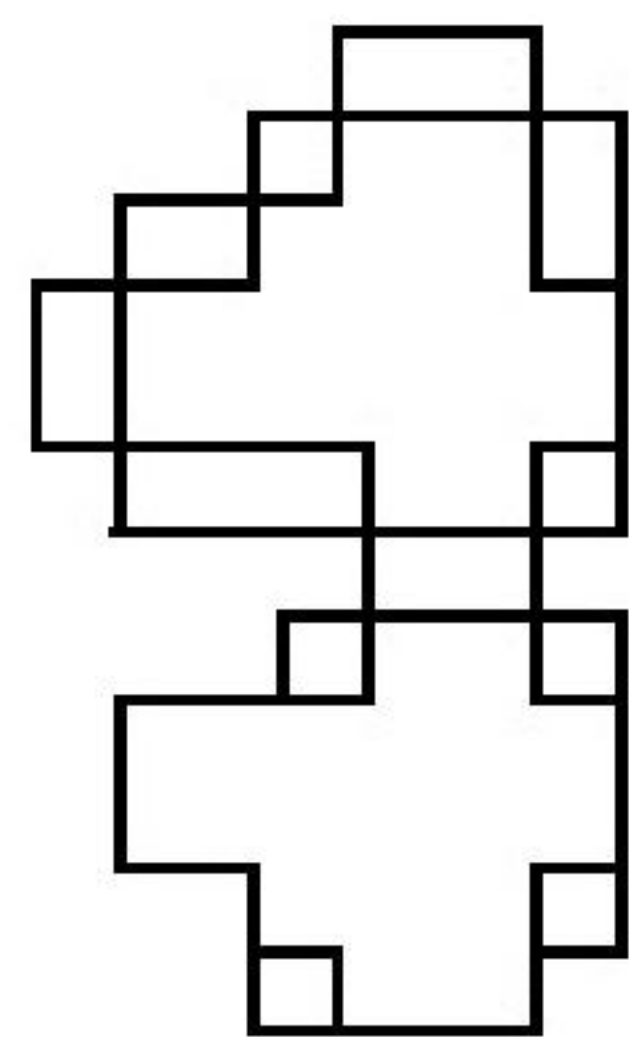
70819145345.



70819145346.



70819145347.

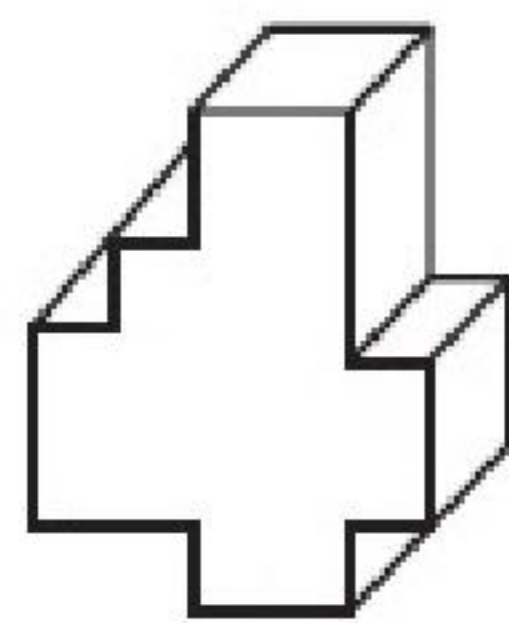


70819145348.

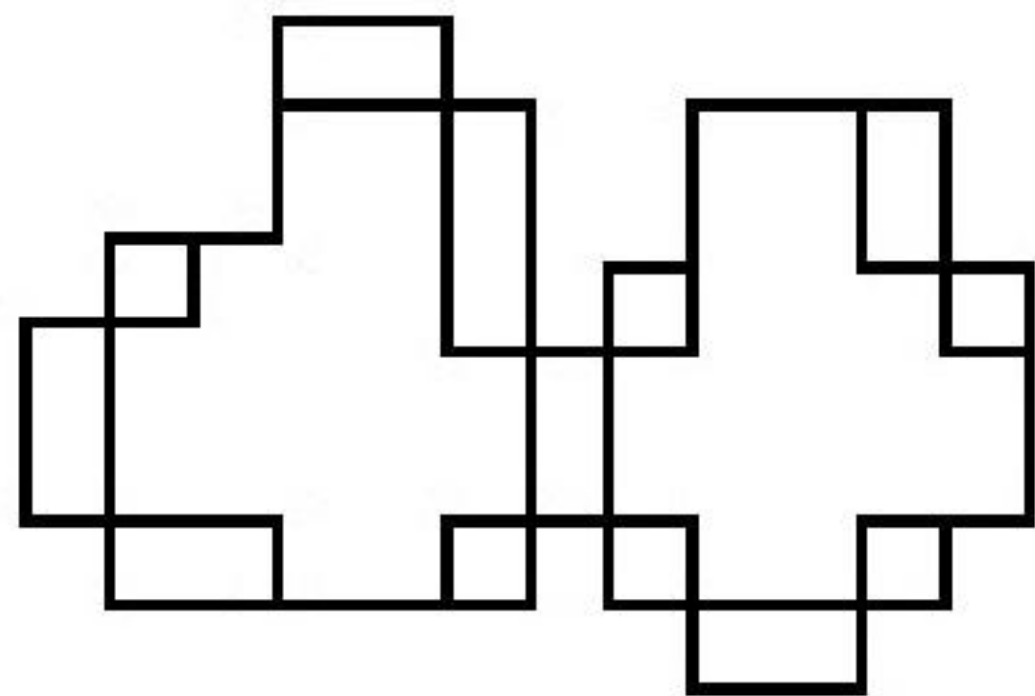
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

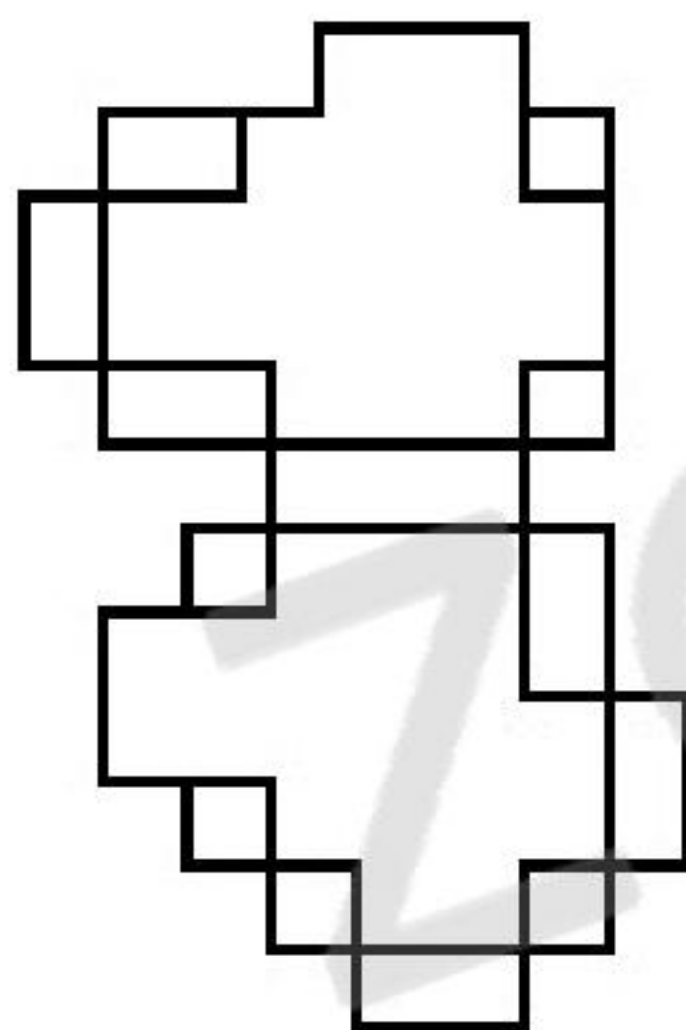
निम्न 3D आकृति को बनाने के लिए, सभी मोड़ों सहित एक ड्रॉइंग दी गई है। सही एक को चुनिए।



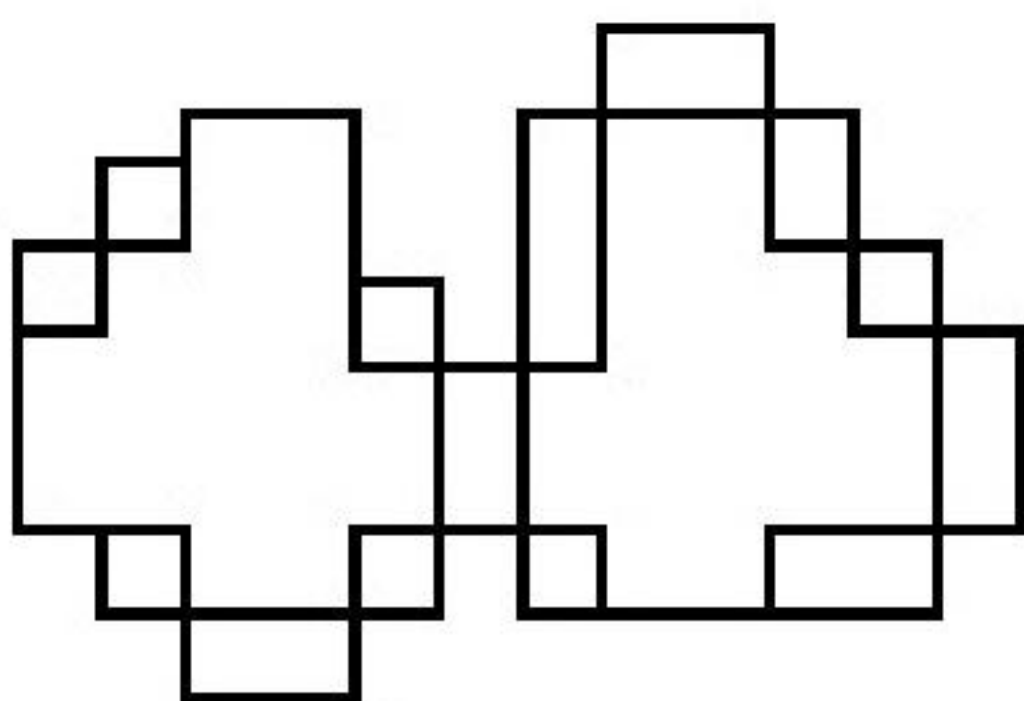
Options :



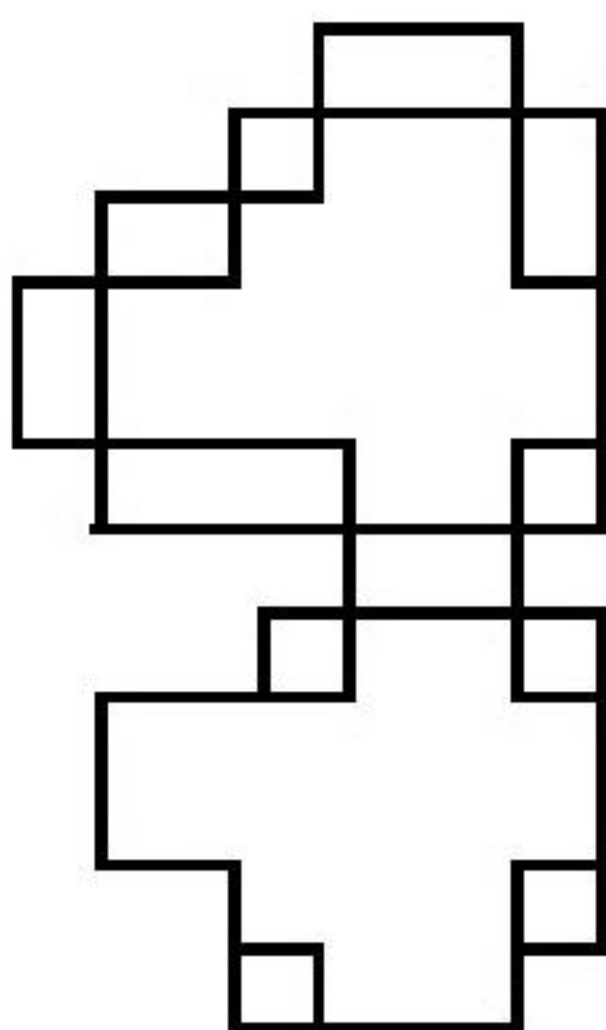
70819145345.



70819145346.



70819145347.

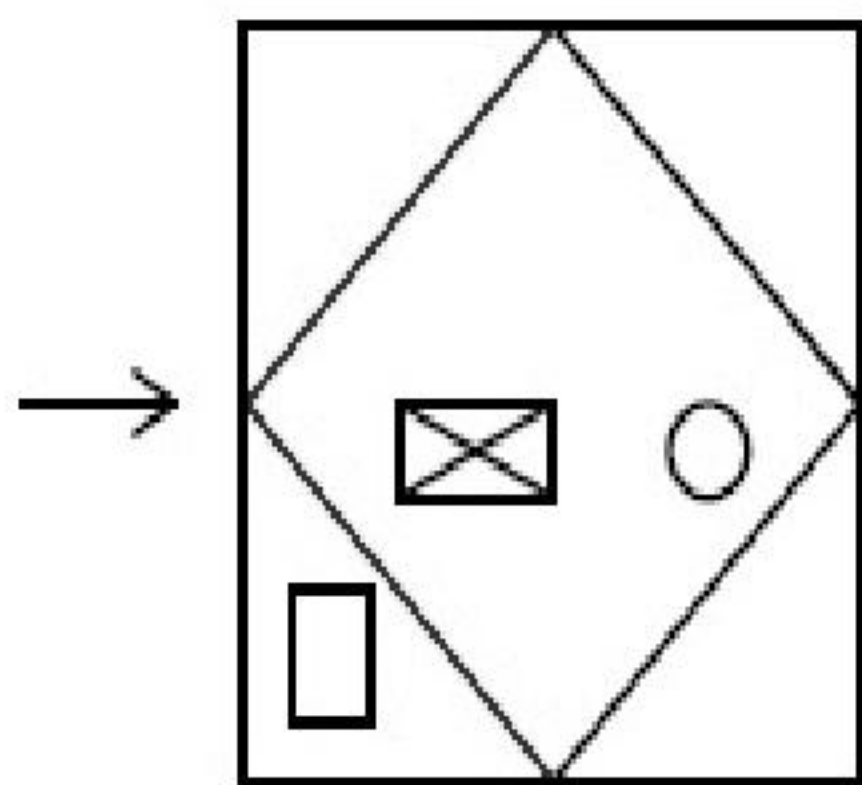


70819145348.

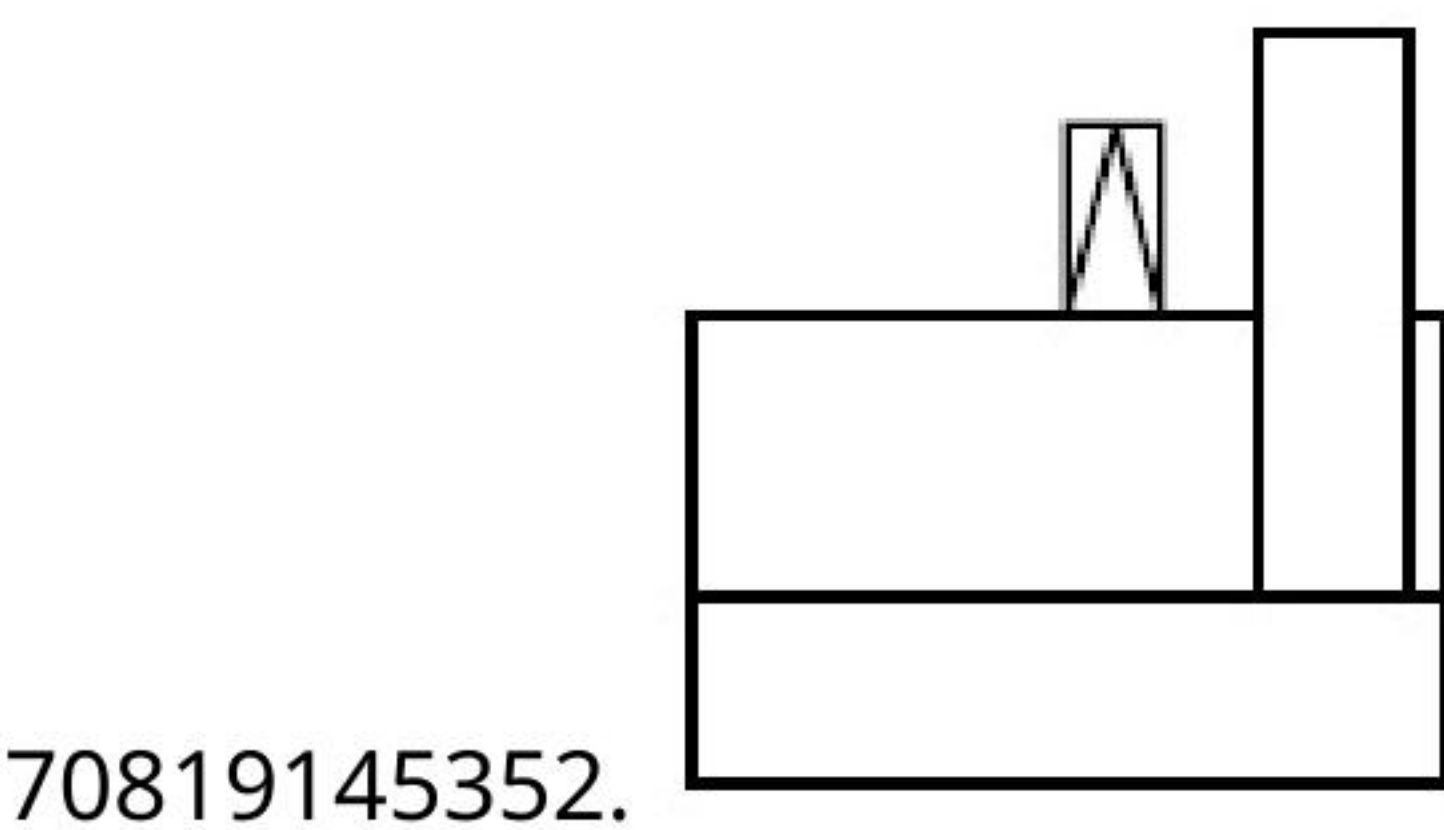
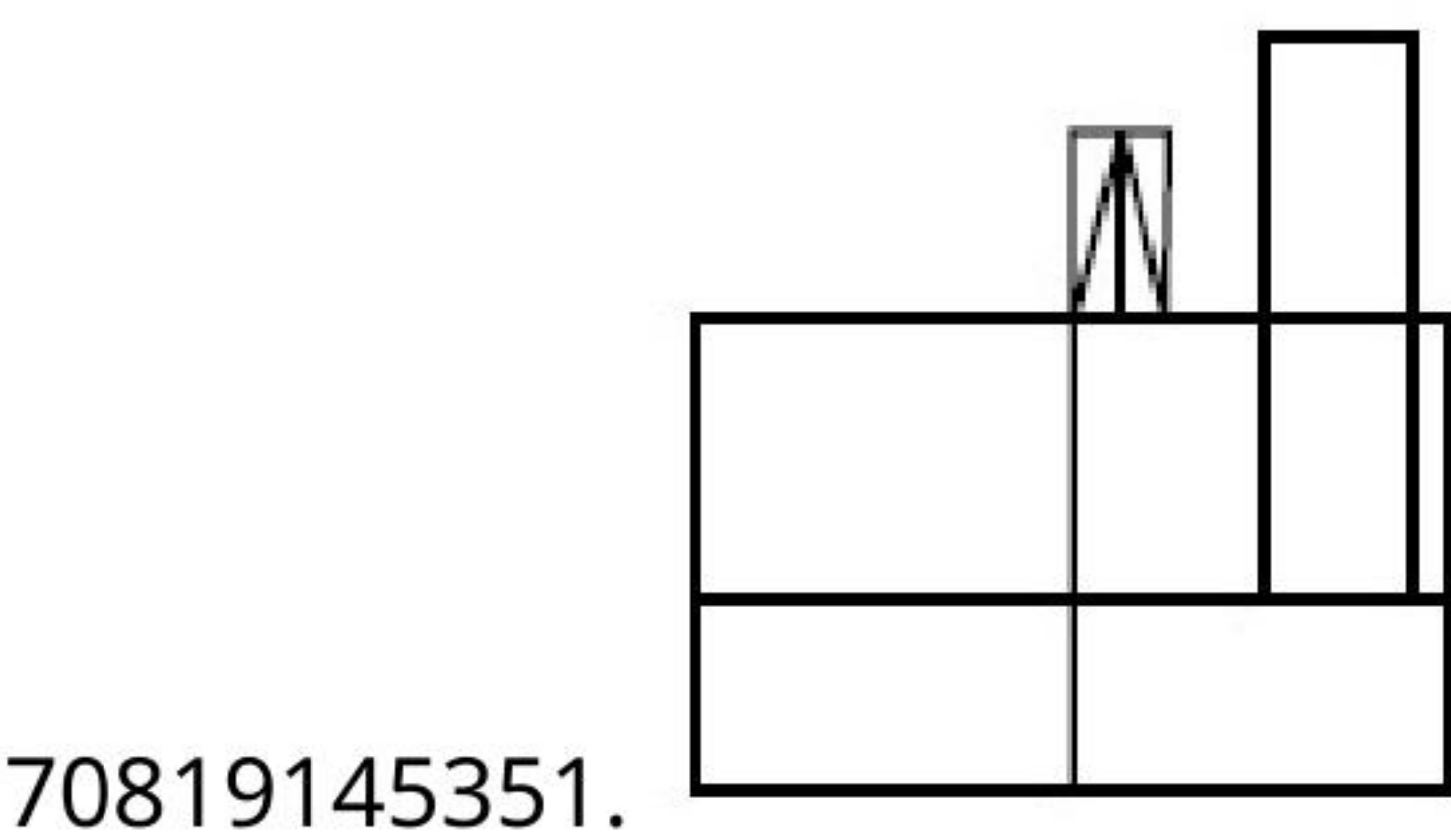
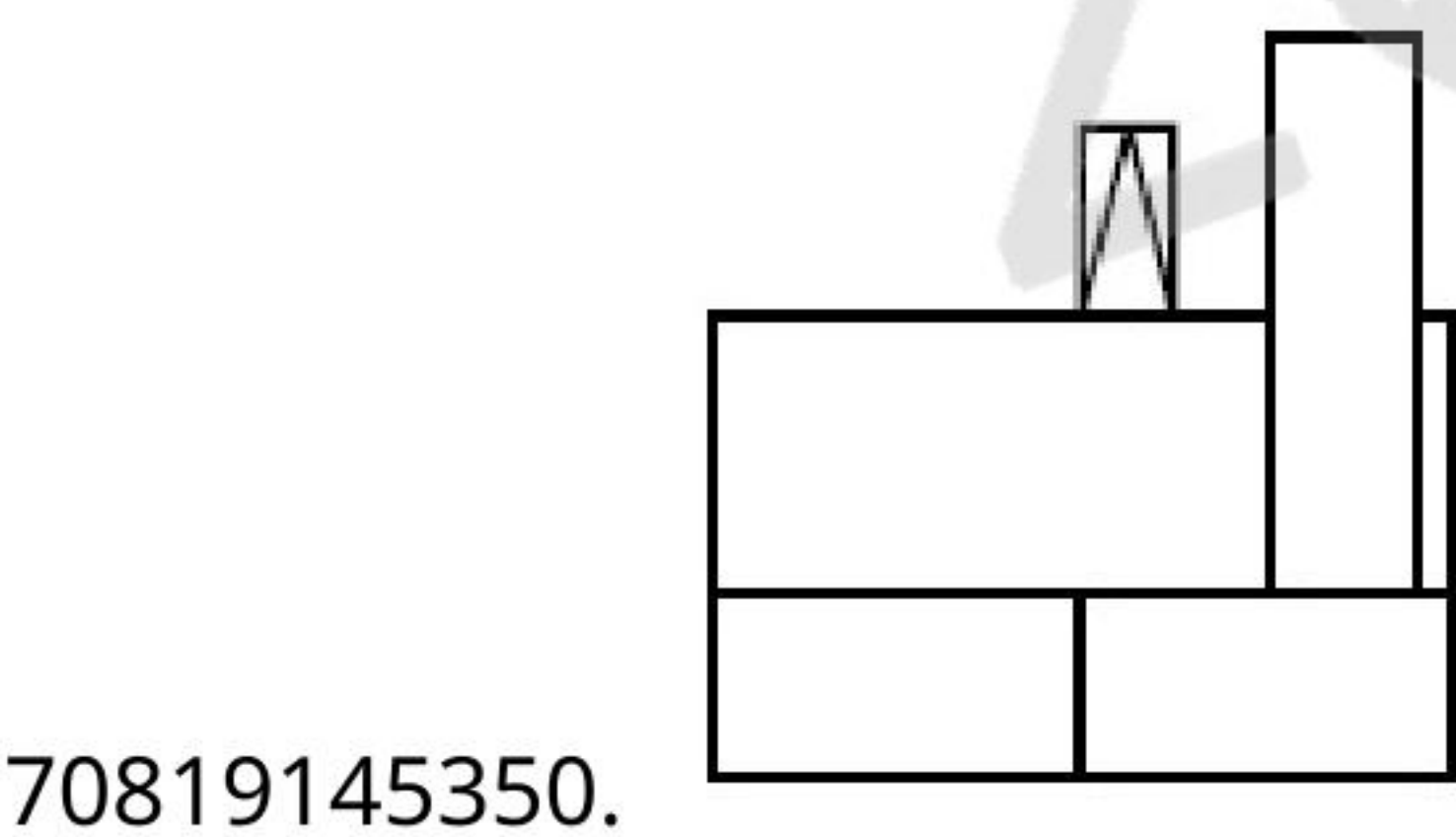
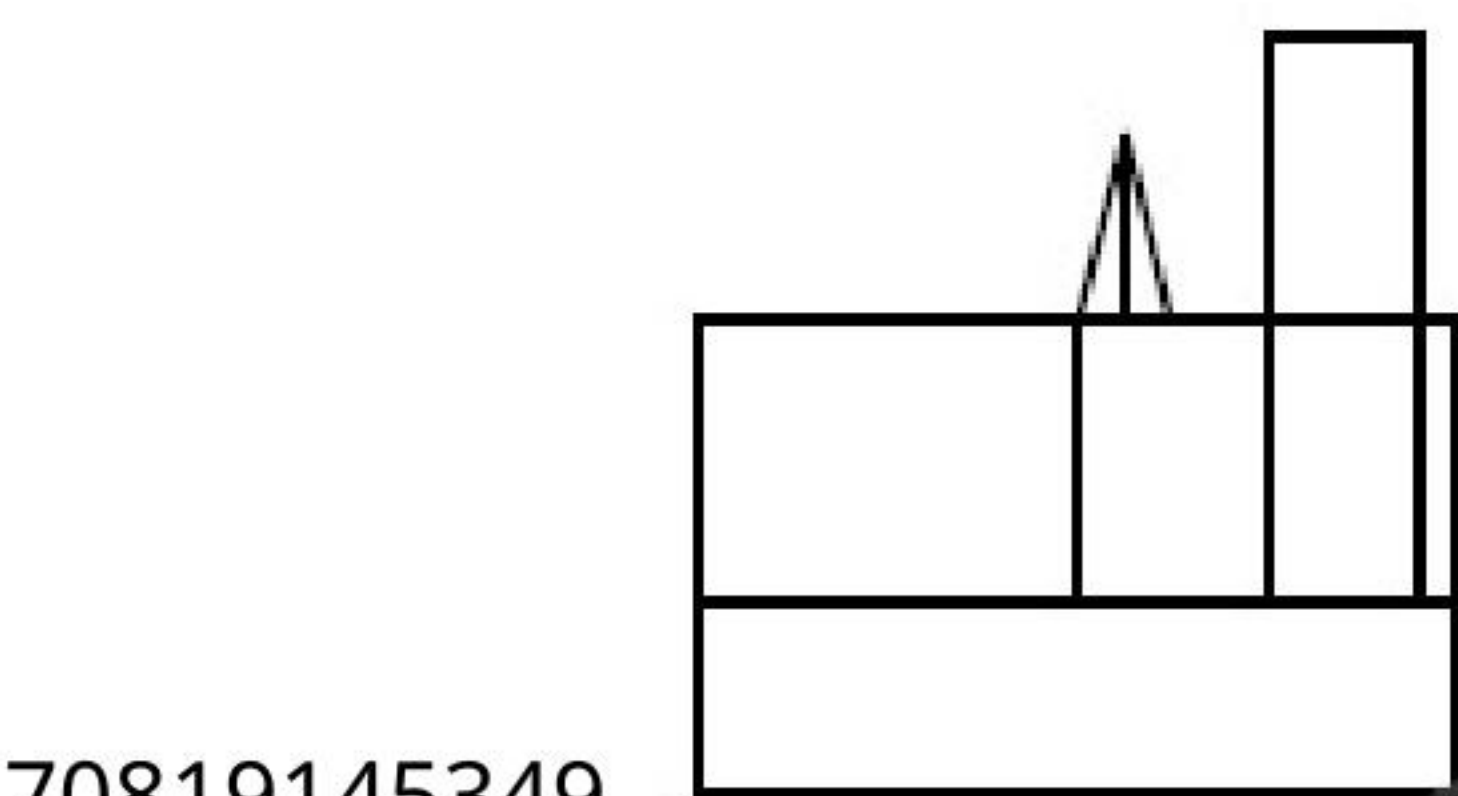
Question Number : 53 Question Id : 70819113694 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The problem figure shows the top view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.



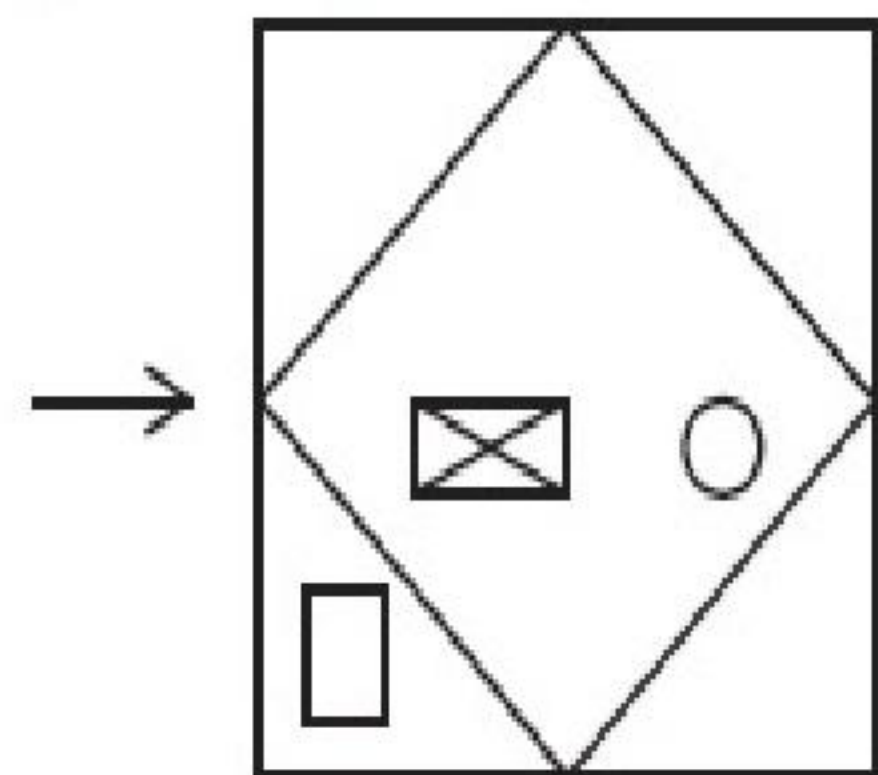
Options :



Question Number : 53 Question Id : 70819113694 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

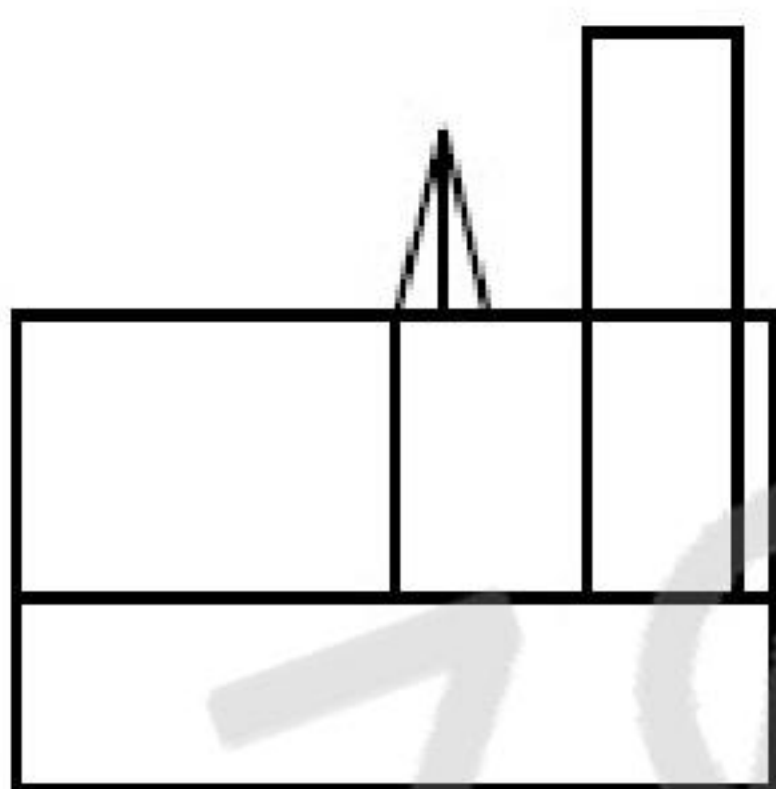
Correct Marks : 4 Wrong Marks : 1

नीचे दी गई प्रश्न आकृति एक वस्तु के ऊपरी दृश्य को दर्शाती है। उत्तर आकृतियों में से, तीर की दिशा में देखते हुए सही दृश्य को चुनिये।

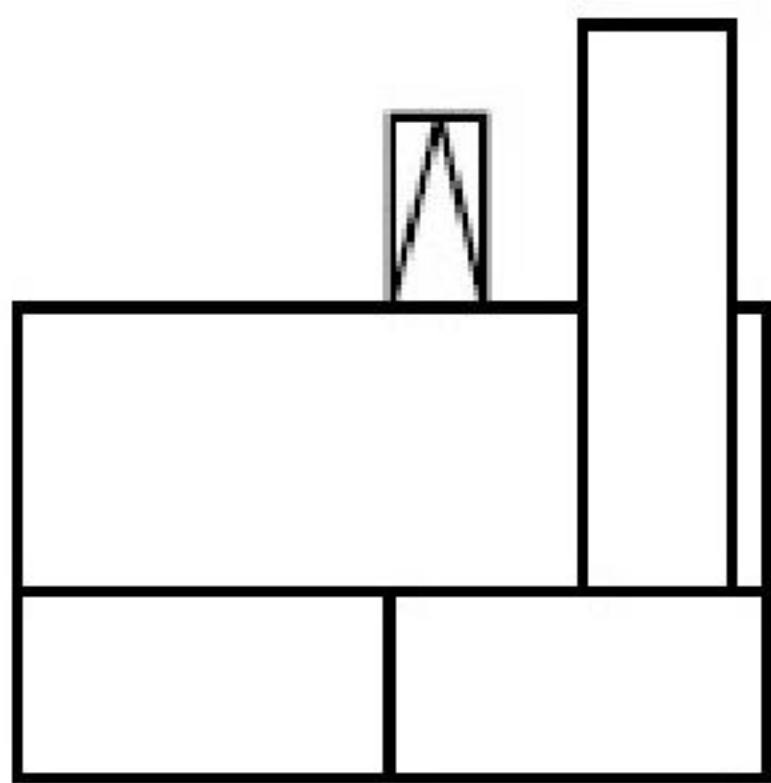


Options :

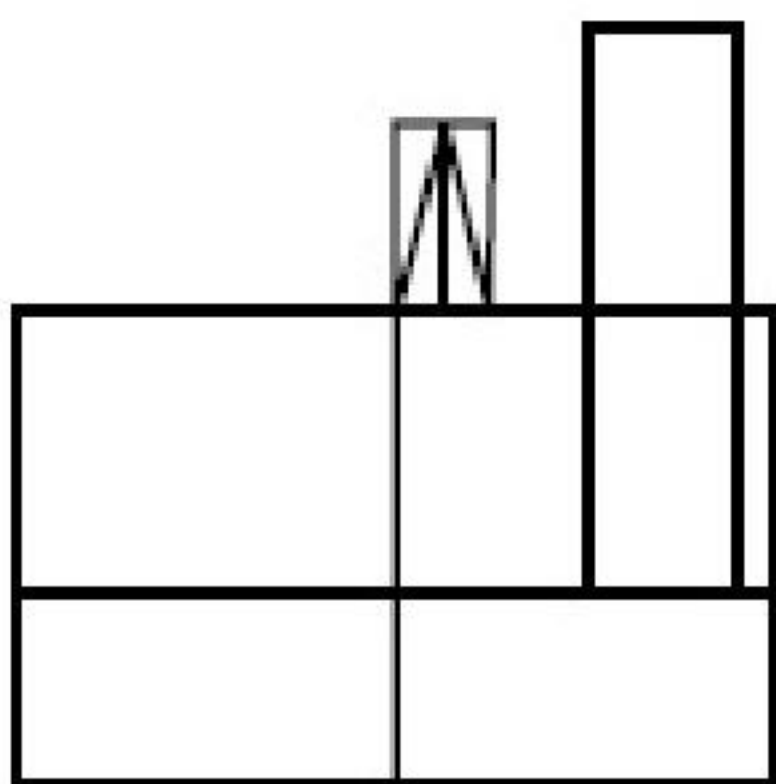
70819145349.



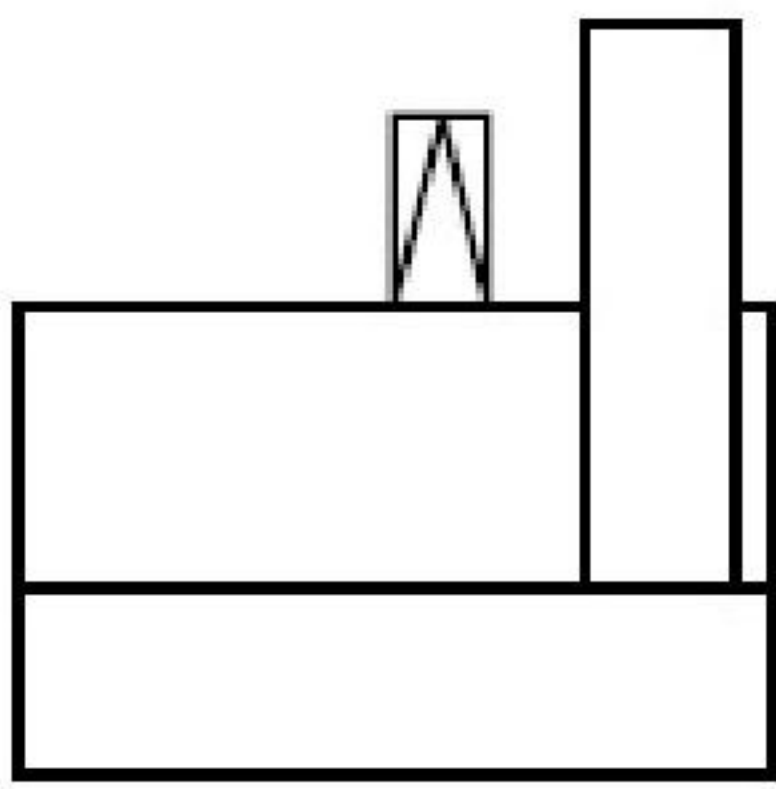
70819145350.



70819145351.



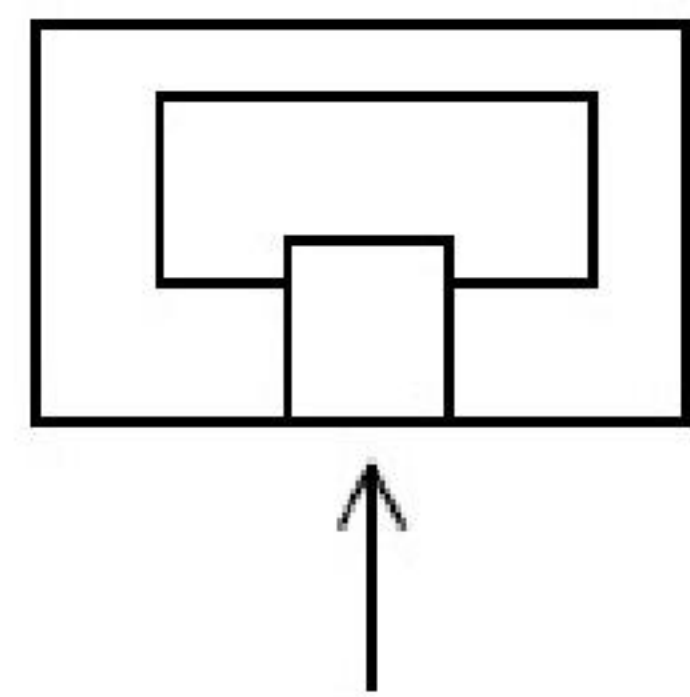
70819145352.



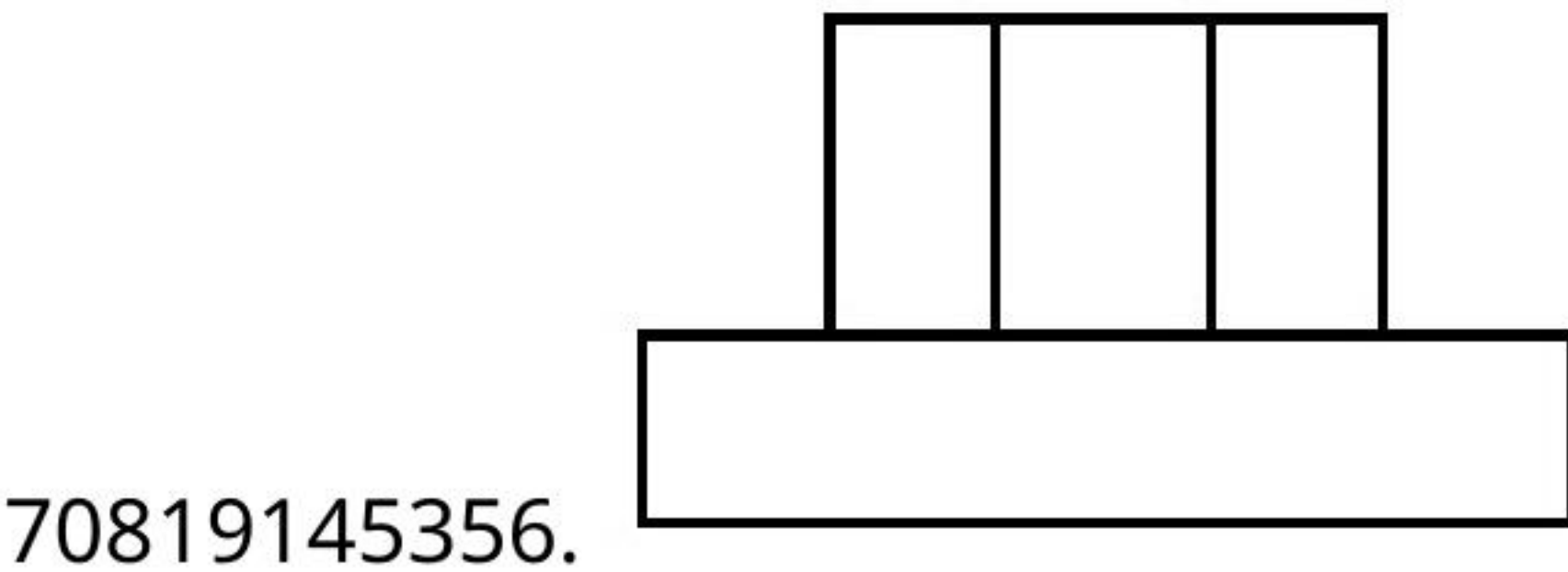
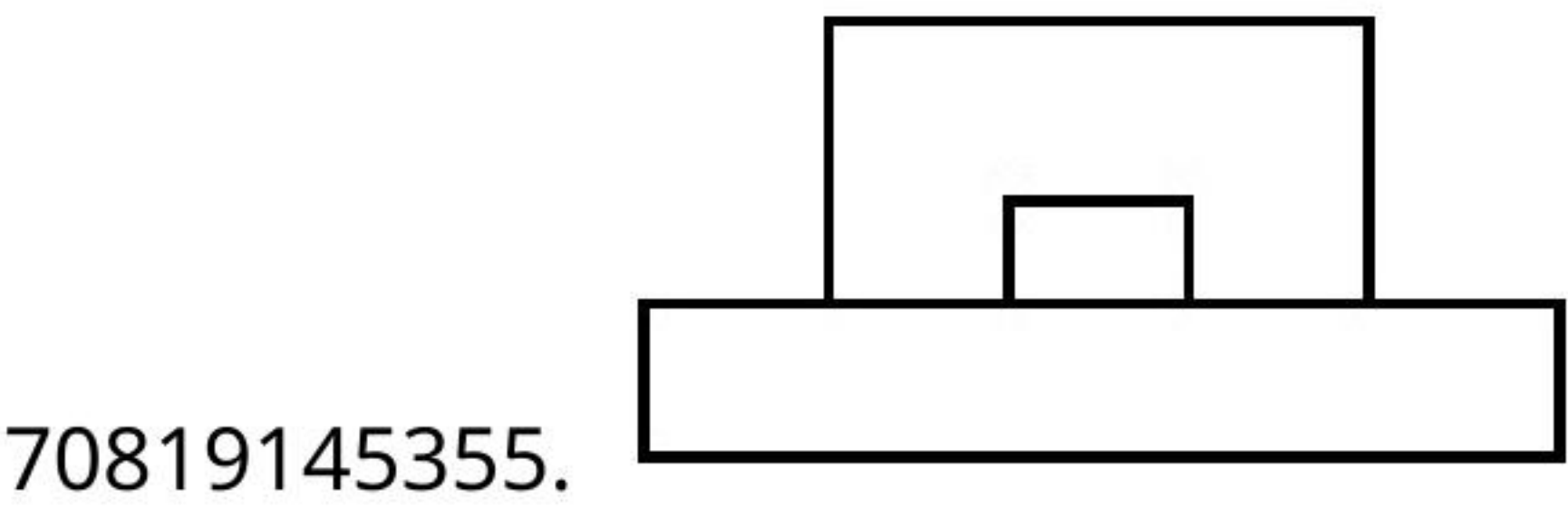
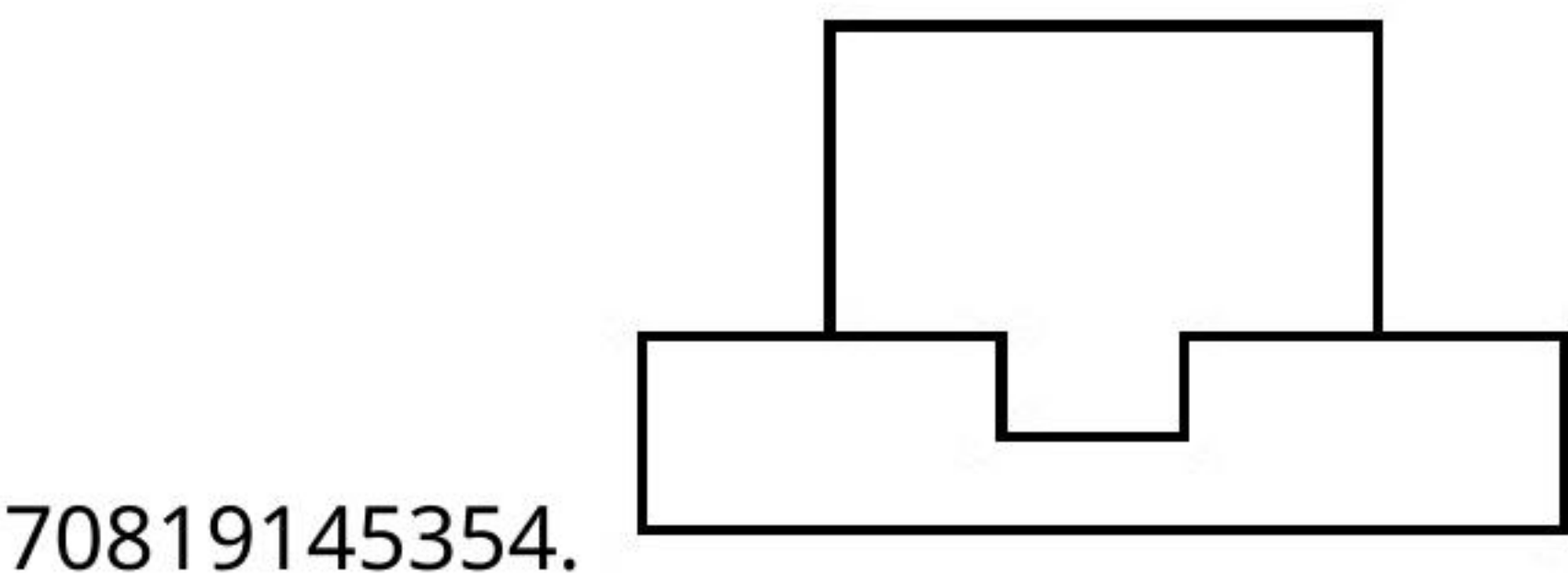
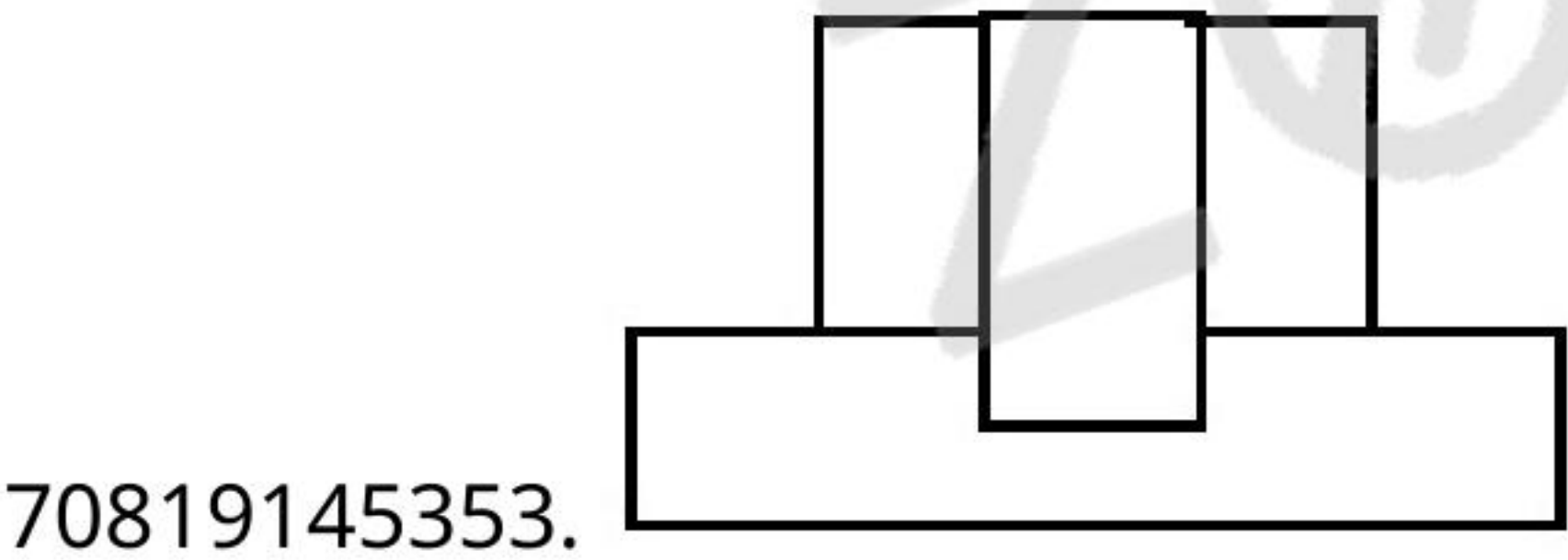
Question Number : 54 Question Id : 70819113695 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The problem figure shows the top view of an object. Identify the correct elevation amongst the answer figures looking in the direction of arrow.



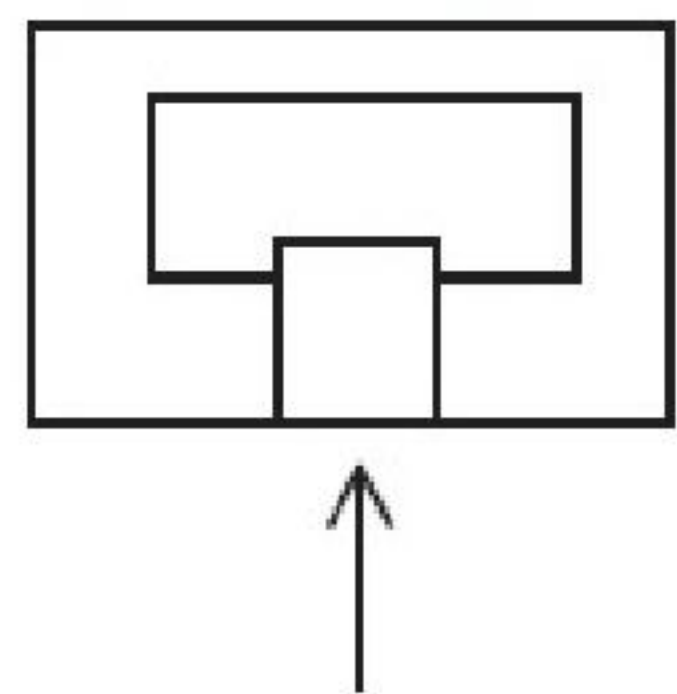
Options :



Question Number : 54 Question Id : 70819113695 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

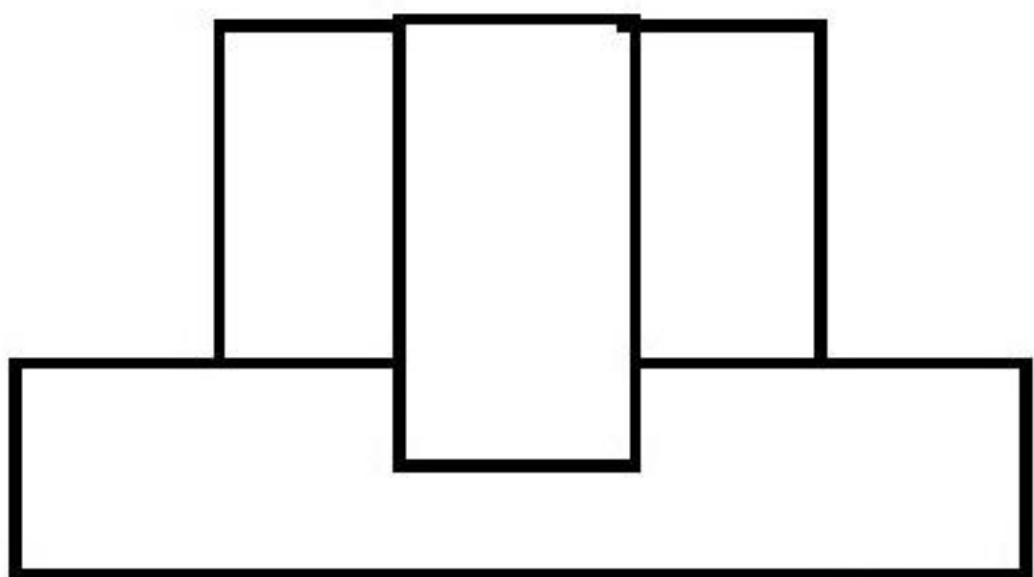
Correct Marks : 4 Wrong Marks : 1

निम्न प्रश्न आकृति एक वस्तु के ऊपरी दृश्य को दर्शाती है। तीर की दिशा में देखते हुए, दी गई उत्तर आकृतियों में से सही एलीवेशन (elevation) को पहचानिए।

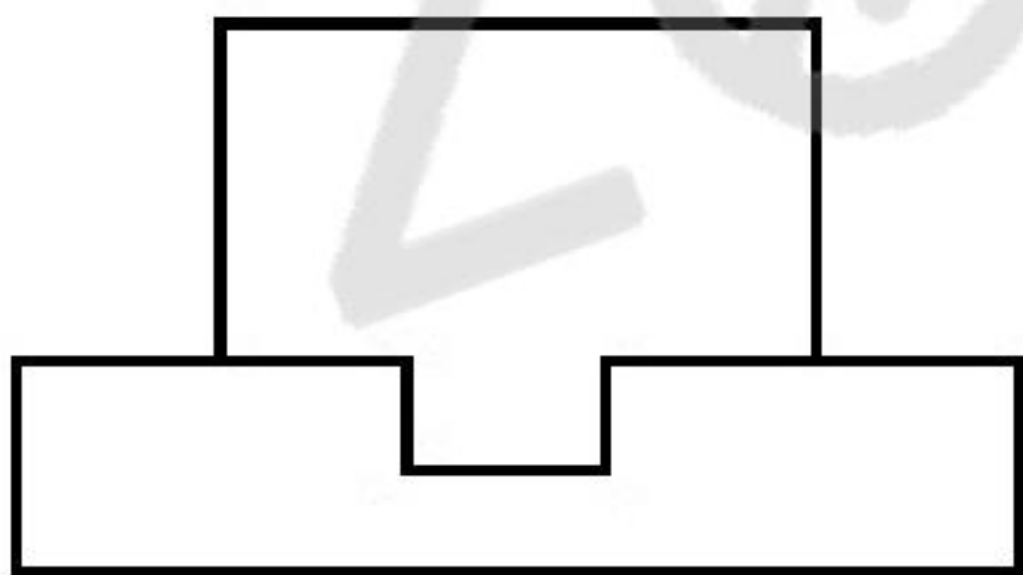


Options :

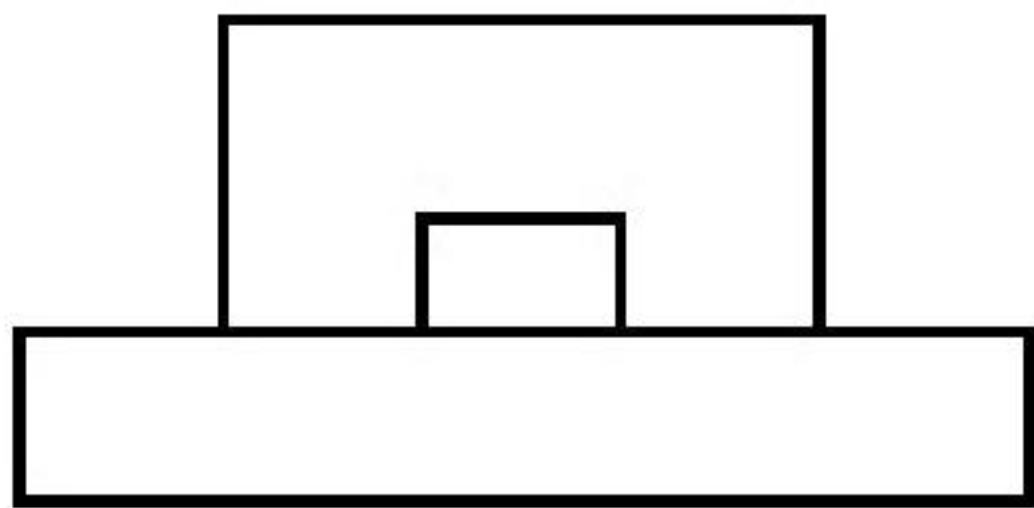
70819145353.



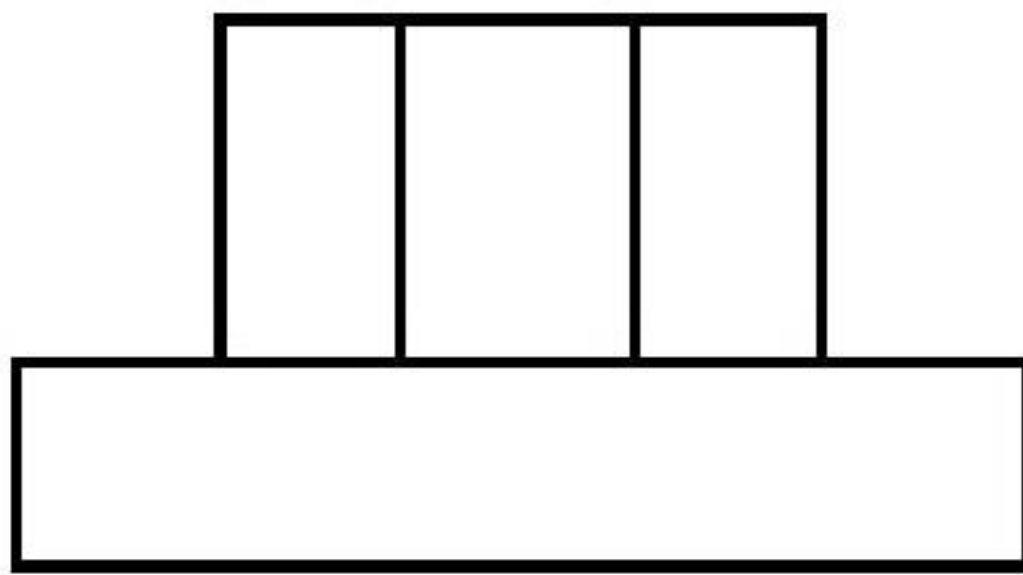
70819145354.



70819145355.



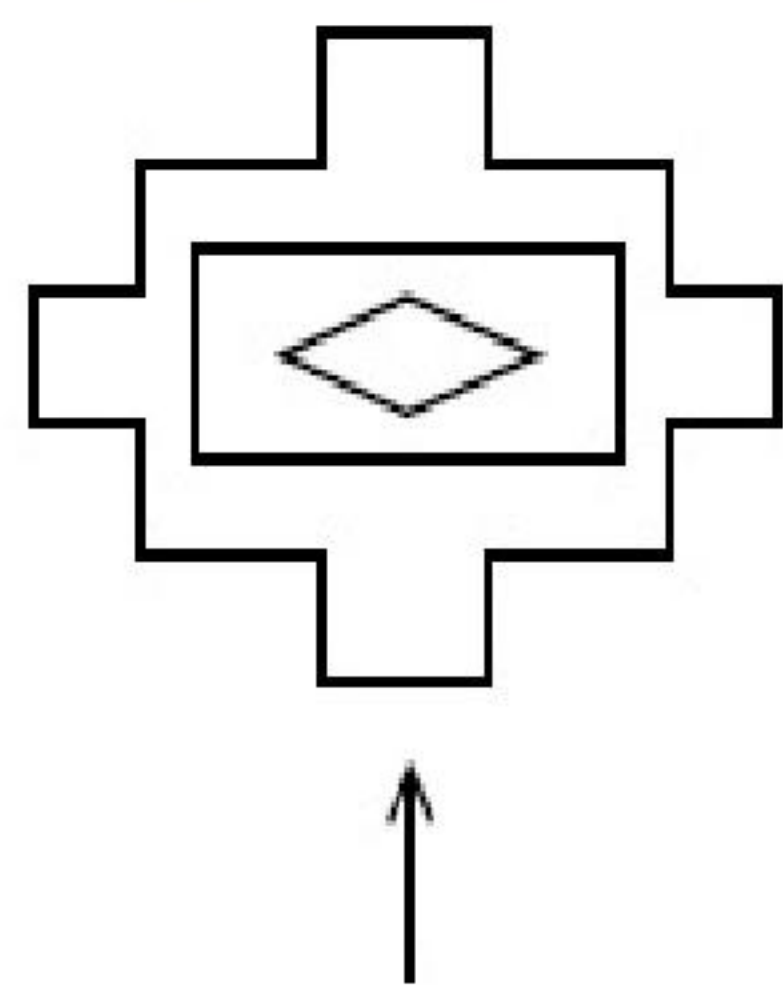
70819145356.



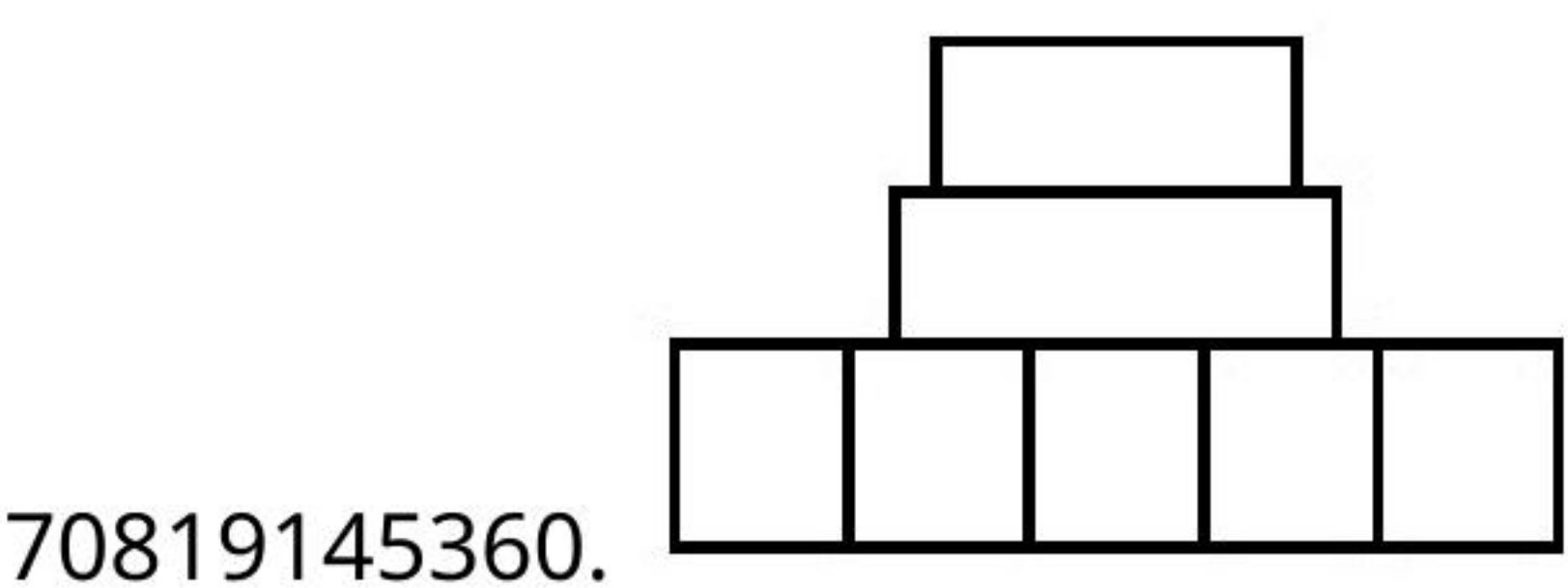
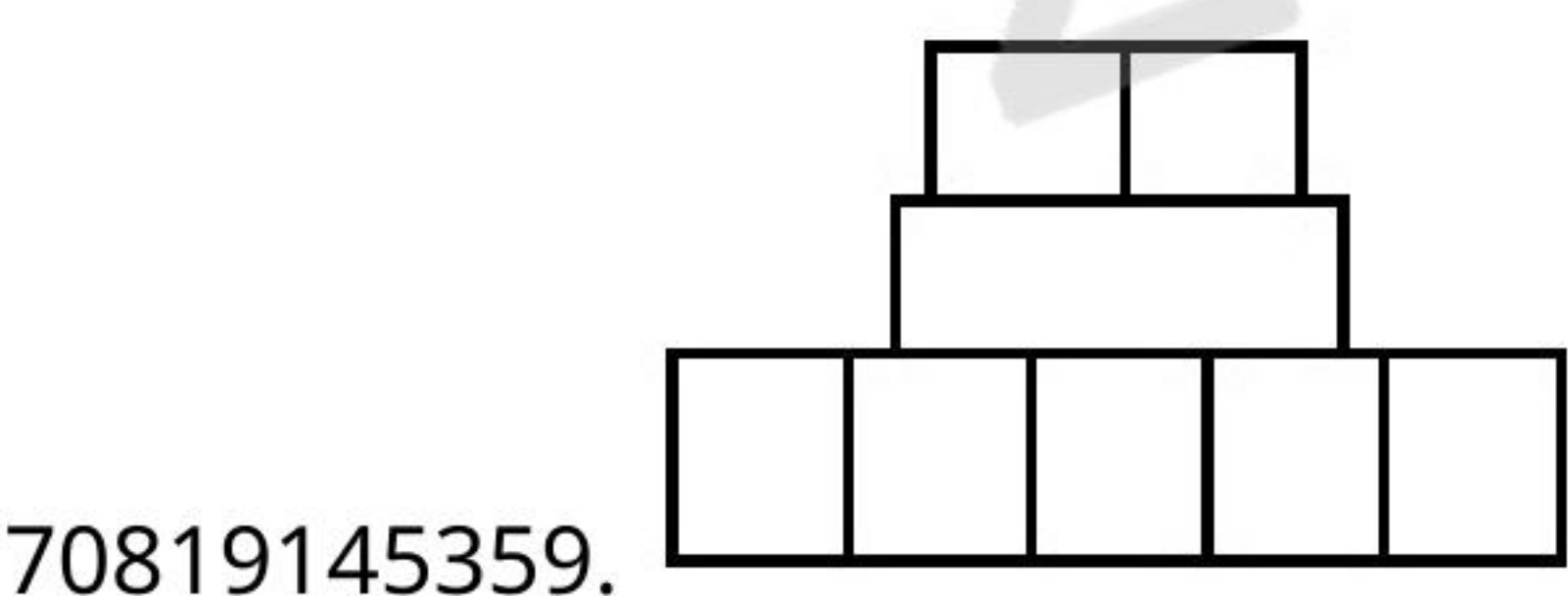
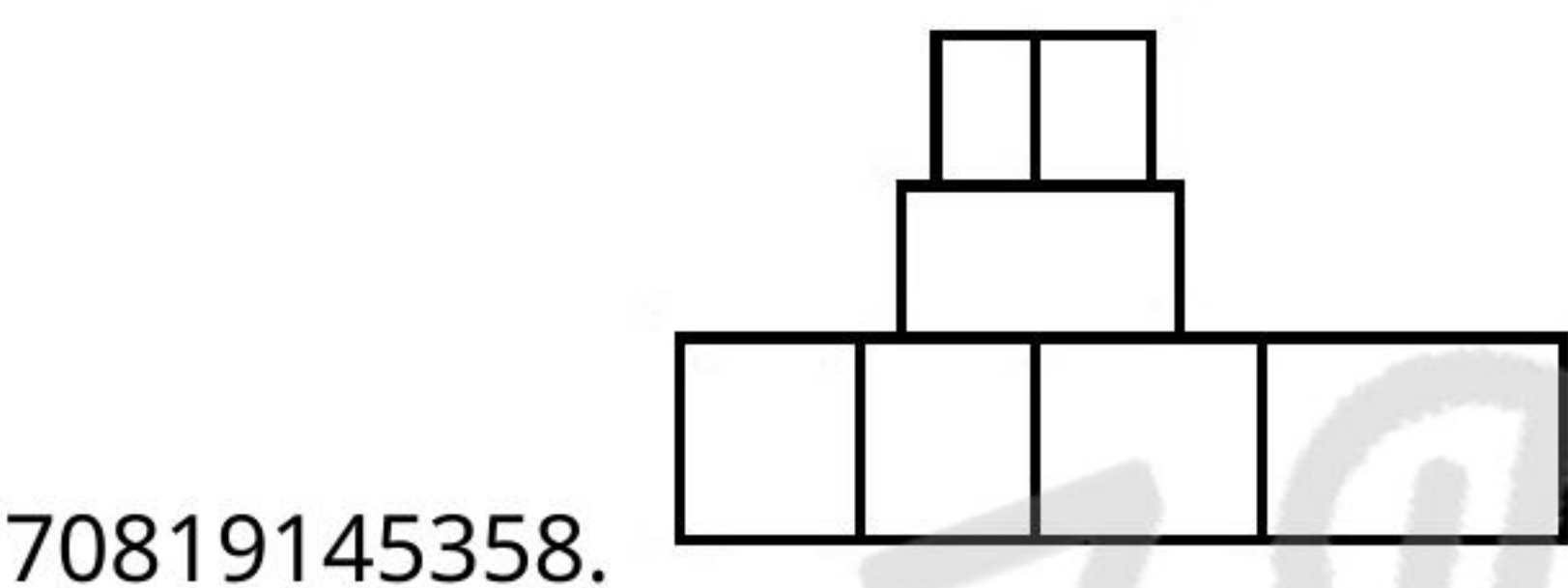
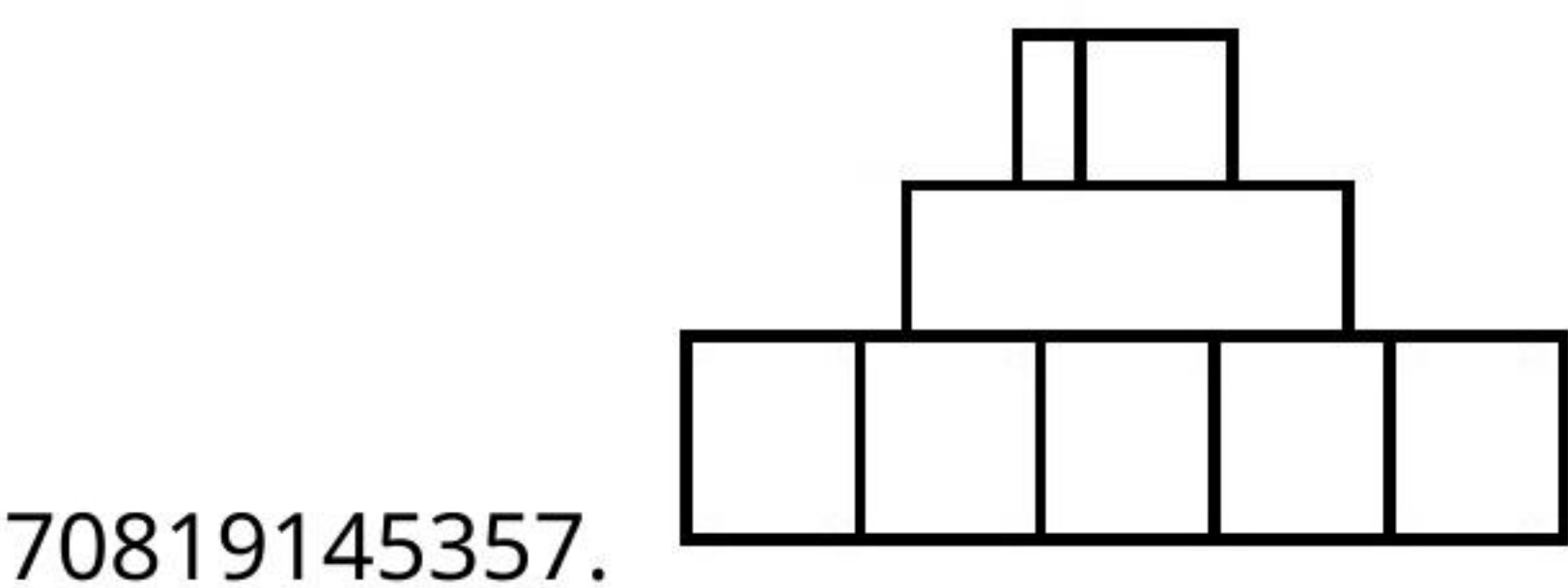
Question Number : 55 Question Id : 70819113696 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The problem figure shows the top view of an object. Identify the correct elevation amongst the answer figures looking in the direction of arrow.



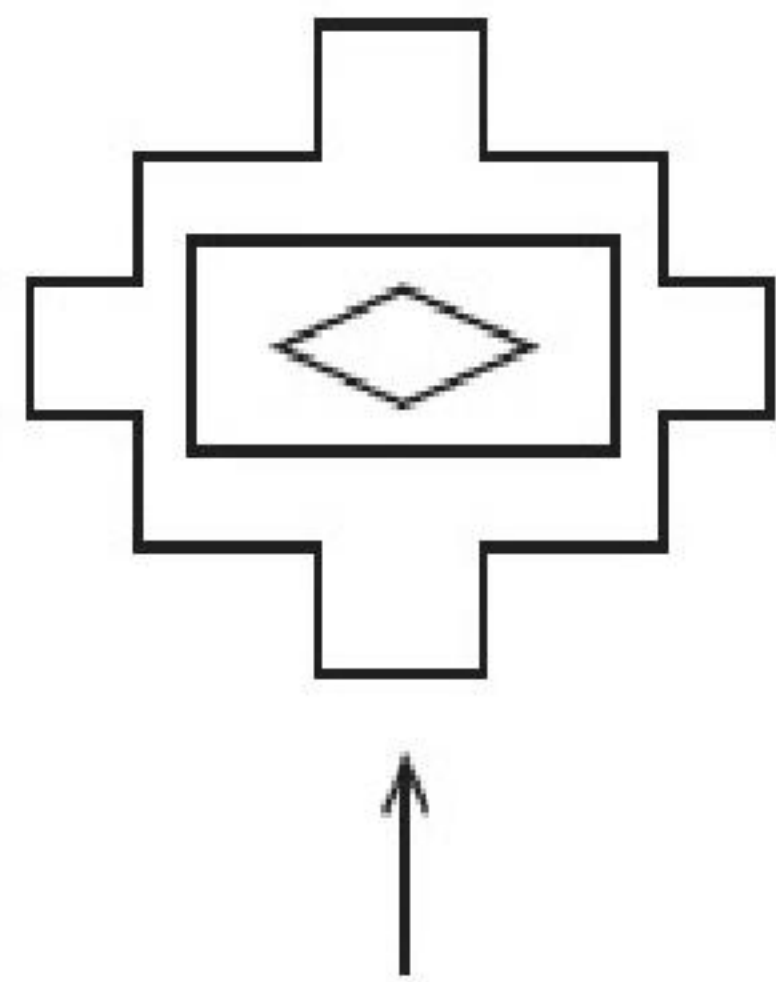
Options :



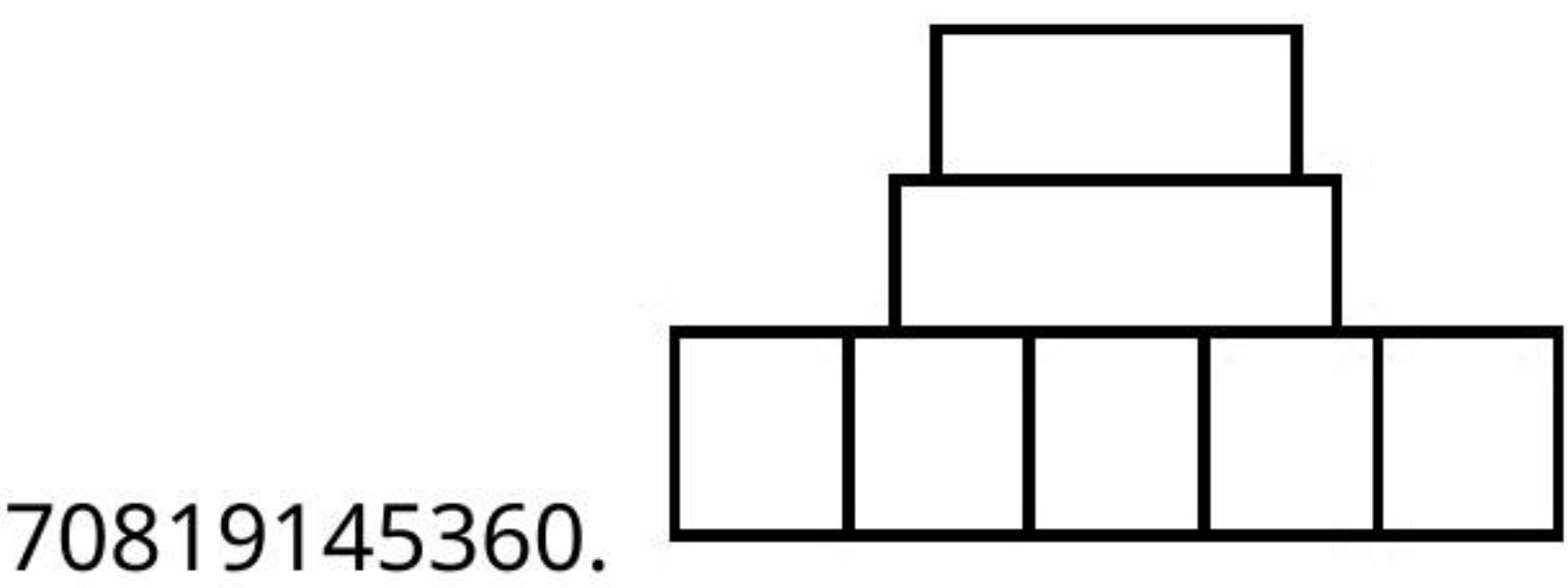
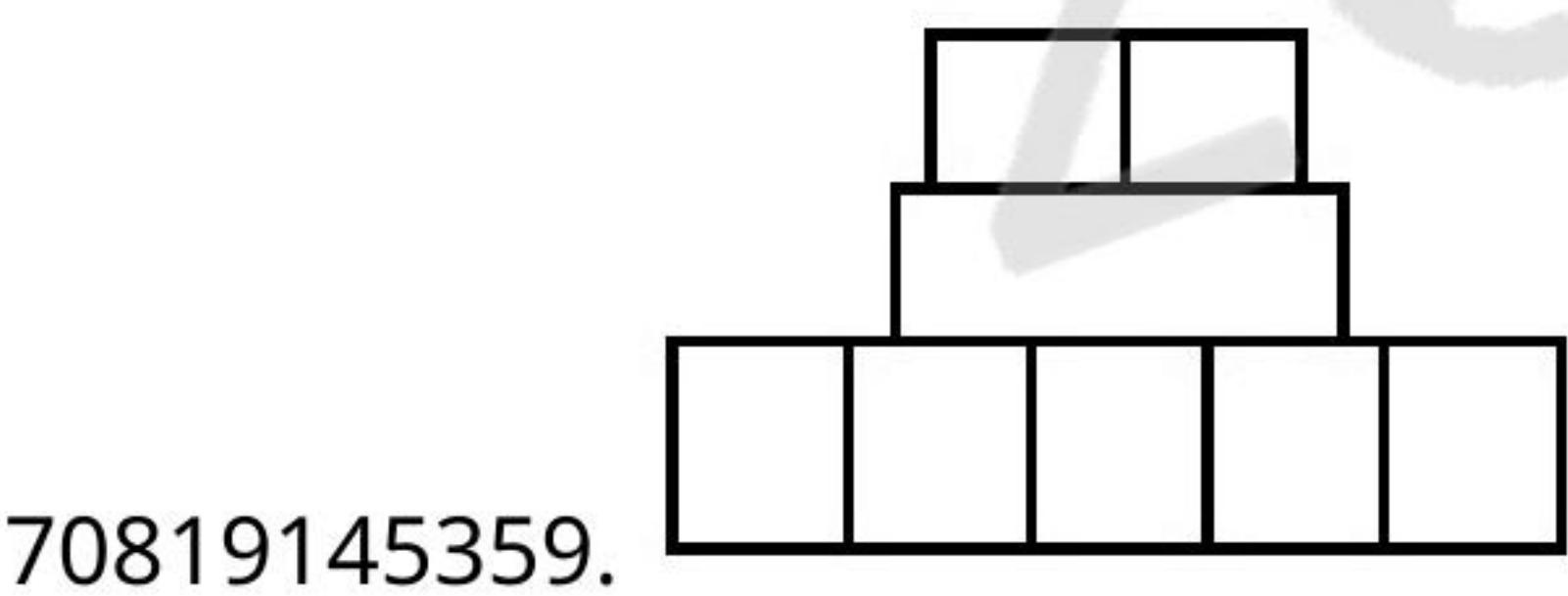
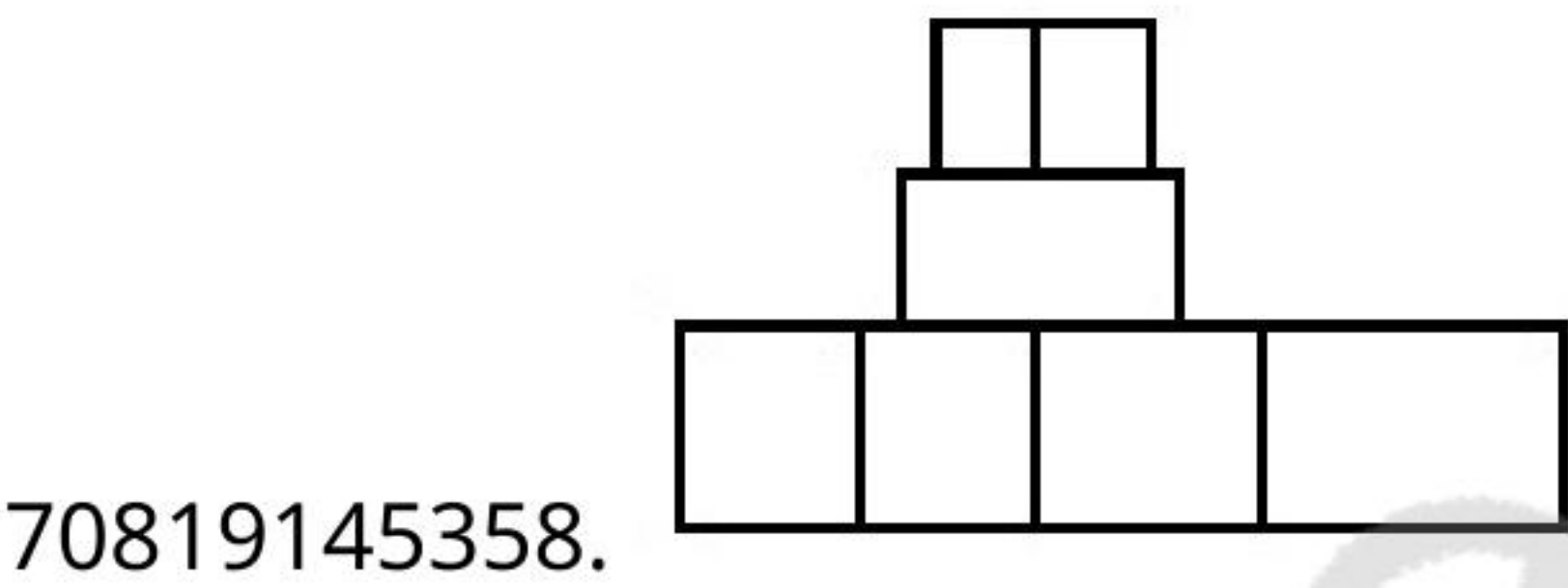
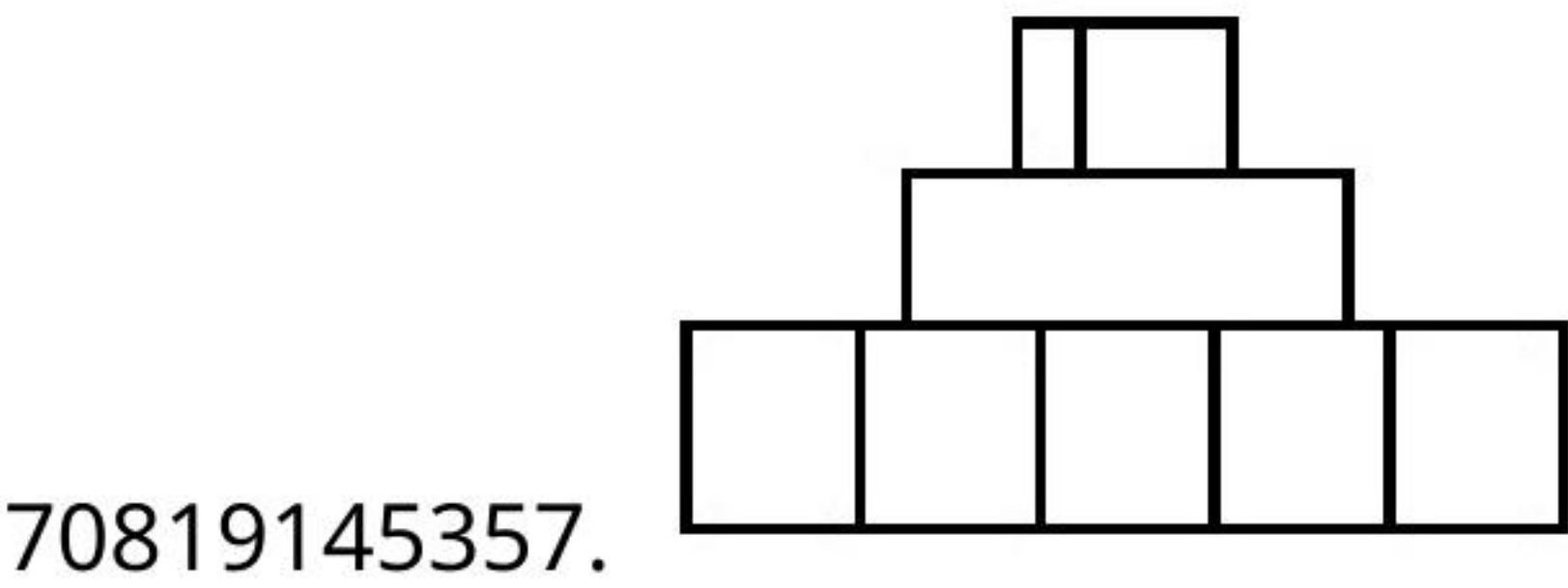
Question Number : 55 Question Id : 70819113696 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

प्रश्न आकृति में एक वस्तु के ऊपरी दृश्य को दिखाया गया है। तीर की दिशा में देखते हुए, उत्तर आकृतियों में से सही एलीवेशन (elevation) को पहचानिए।

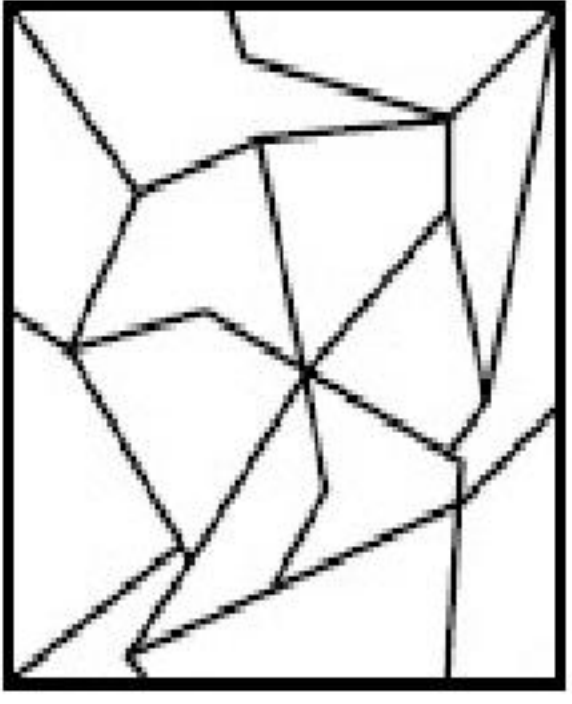


Options :



Question Number : 56 Question Id : 70819113697 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No
Correct Marks : 4 Wrong Marks : 1

One of the following answer figures is hidden in problem figure in same size and direction.
Select correct one.



Options :

70819145361.

70819145362.

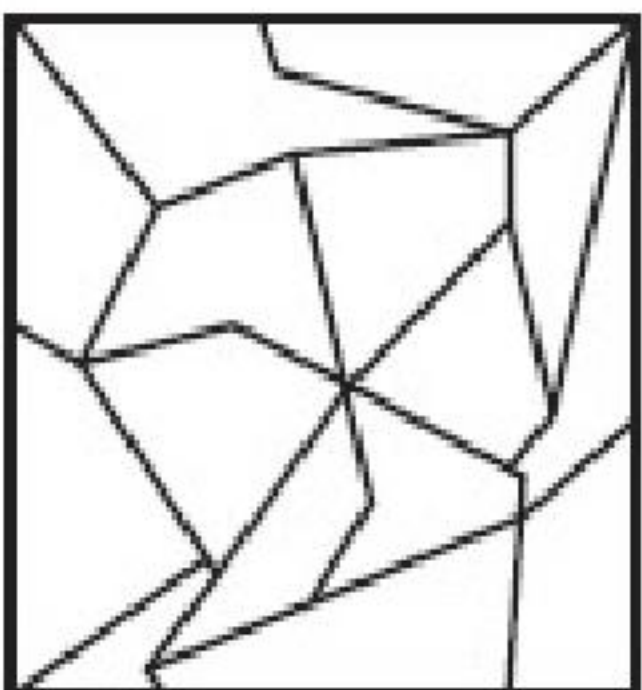
70819145363.

70819145364.

Question Number : 56 Question Id : 70819113697 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

निम्न में से एक उत्तर चित्र उसी आकार तथा दिशा में प्रश्न चित्र में छिपा हुआ है। सही उत्तर को चुनिये।



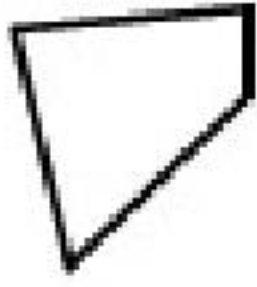
Options :

70819145361.

70819145362.



70819145363.



70819145364.

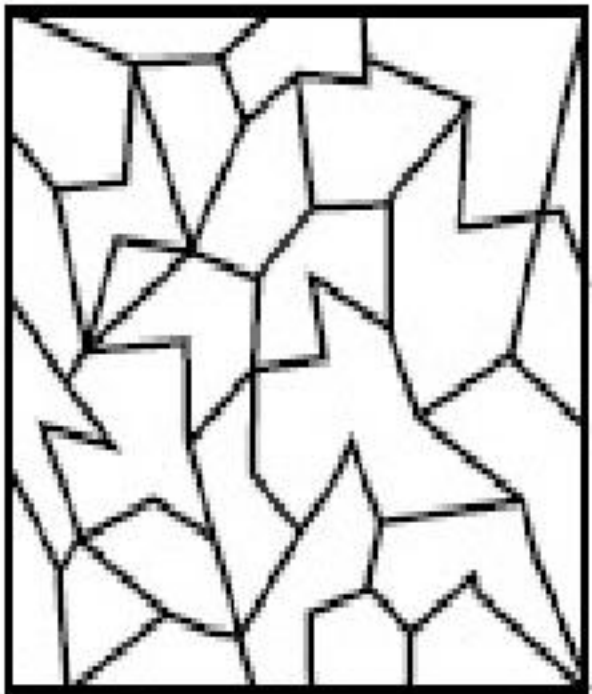


Question Number : 57 Question Id : 70819113698 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

One of the following answer figures is hidden in problem figure in the same size and direction.
Select correct one.



Options :

70819145365.



70819145366.



70819145367.



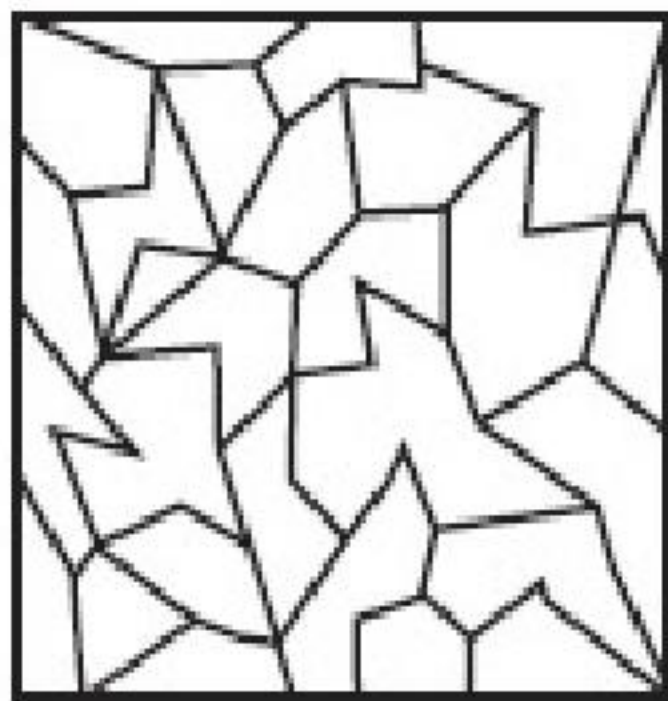
70819145368.



Question Number : 57 Question Id : 70819113698 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

निम्न में से एक उत्तर चित्र उसी आकार तथा दिशा में प्रश्न चित्र में छिपा हुआ है। सही उत्तर को चुनिये।



Options :

70819145365.

70819145366.

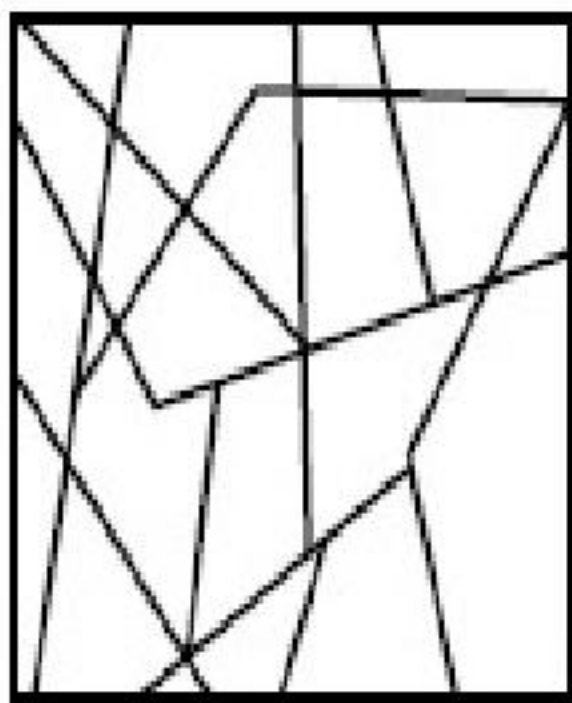
70819145367.

70819145368.

Question Number : 58 Question Id : 70819113699 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

One of the following answer figures is hidden in the problem figure in same size and direction.
Select the correct one.



Options :

70819145369.

70819145370.



70819145371.



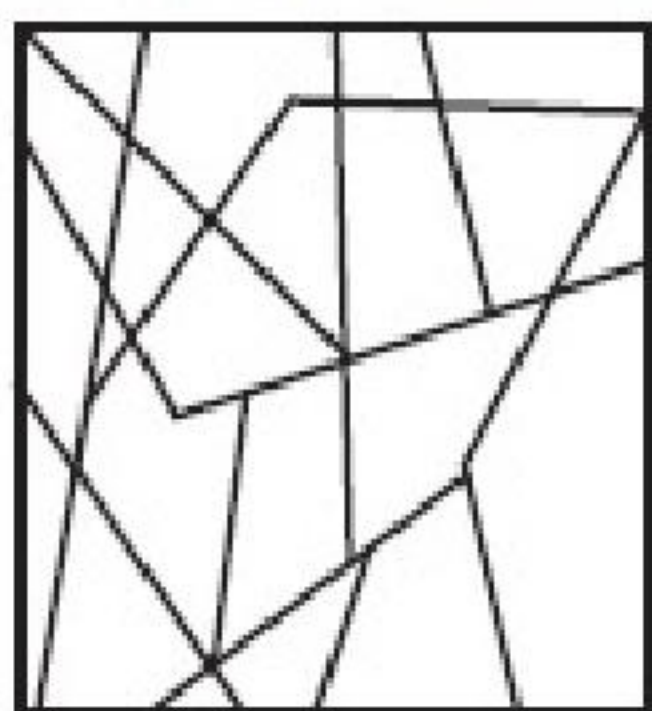
70819145372.



Question Number : 58 Question Id : 70819113699 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

निम्न में से एक उत्तर चित्र उसी आकार तथा दिशा में प्रश्न चित्र में छिपा हुआ है। सही उत्तर को चुनिये।



Options :

70819145369.



70819145370.



70819145371.



70819145372.

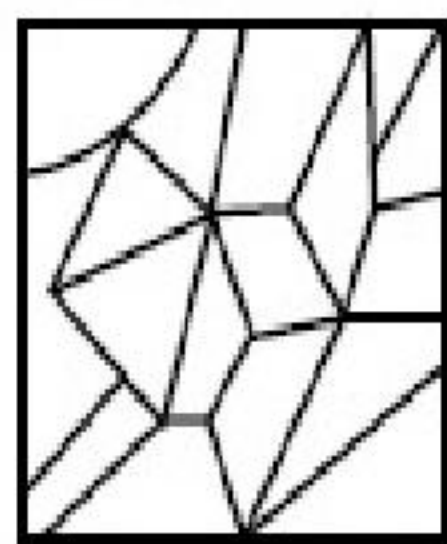


Question Number : 59 Question Id : 70819113700 Question Type : MCQ Op

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

One of the following answer figures is hidden in the problem figure in same size and direction.
Select the correct one.



Options :

70819145373.

70819145374.

70819145375.

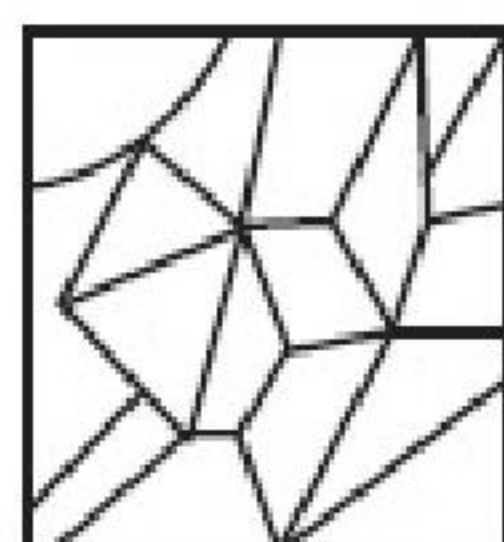
70819145376.

Question Number : 59 Question Id : 70819113700 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

निम्न में से एक उत्तर चित्र उसी आकार तथा दिशा में प्रश्न चित्र में छिपा हुआ है। सही उत्तर को चुनिये।

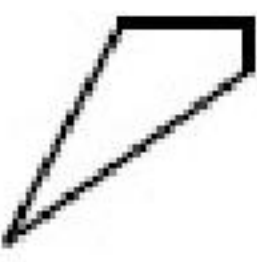


Options :

70819145373.

70819145374.

70819145375. 

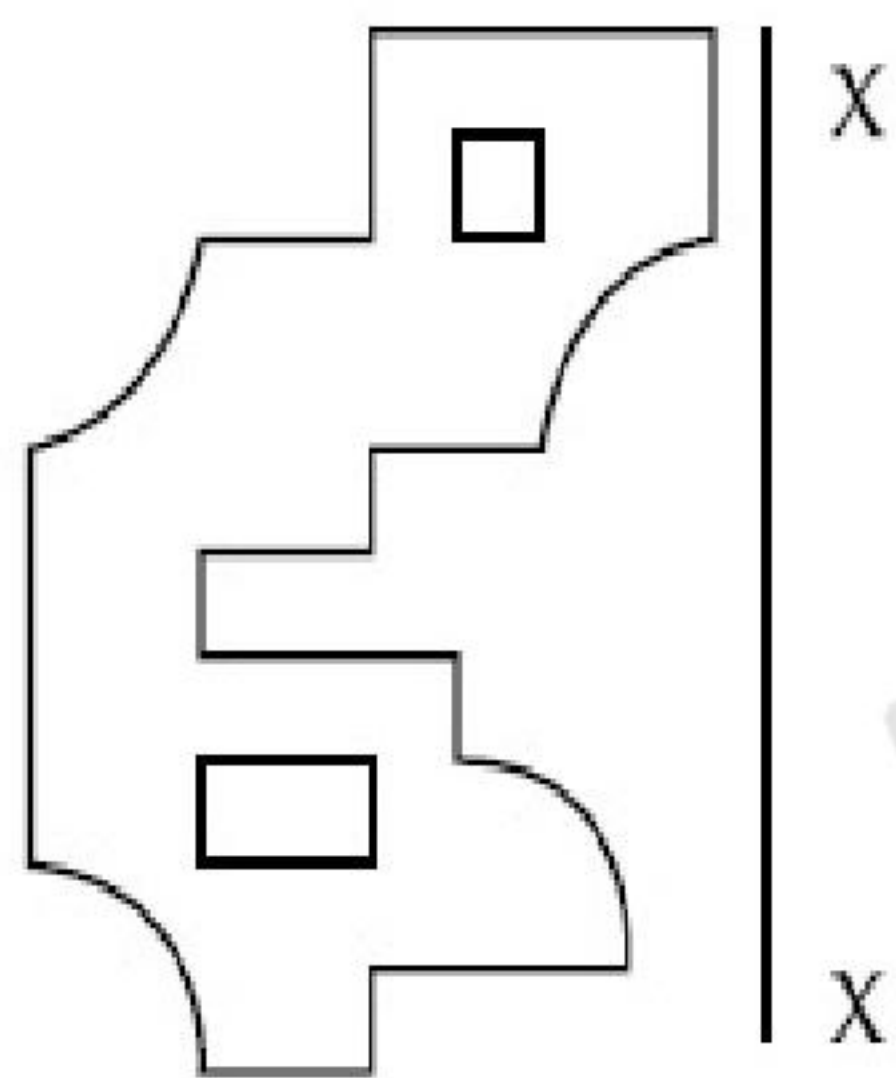
70819145376. 

Question Number : 60 Question Id : 70819113701 Question Type : MCQ Option Shuffling : Yes

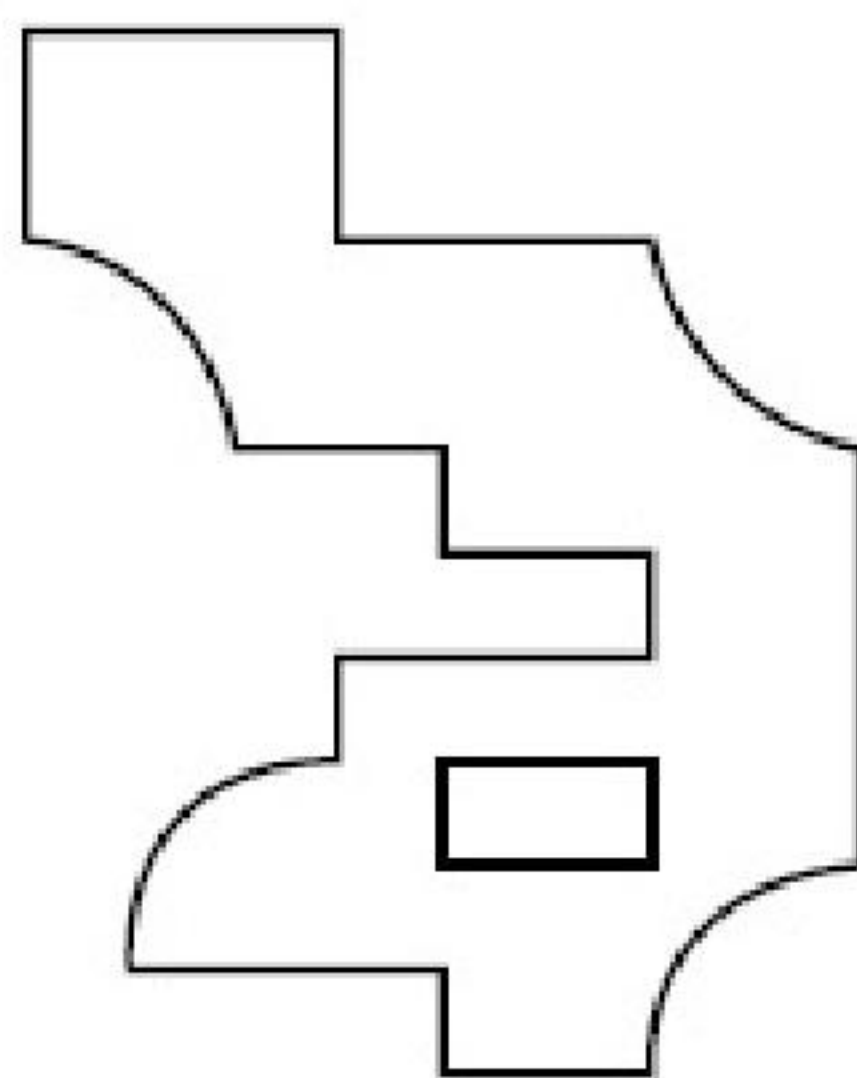
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

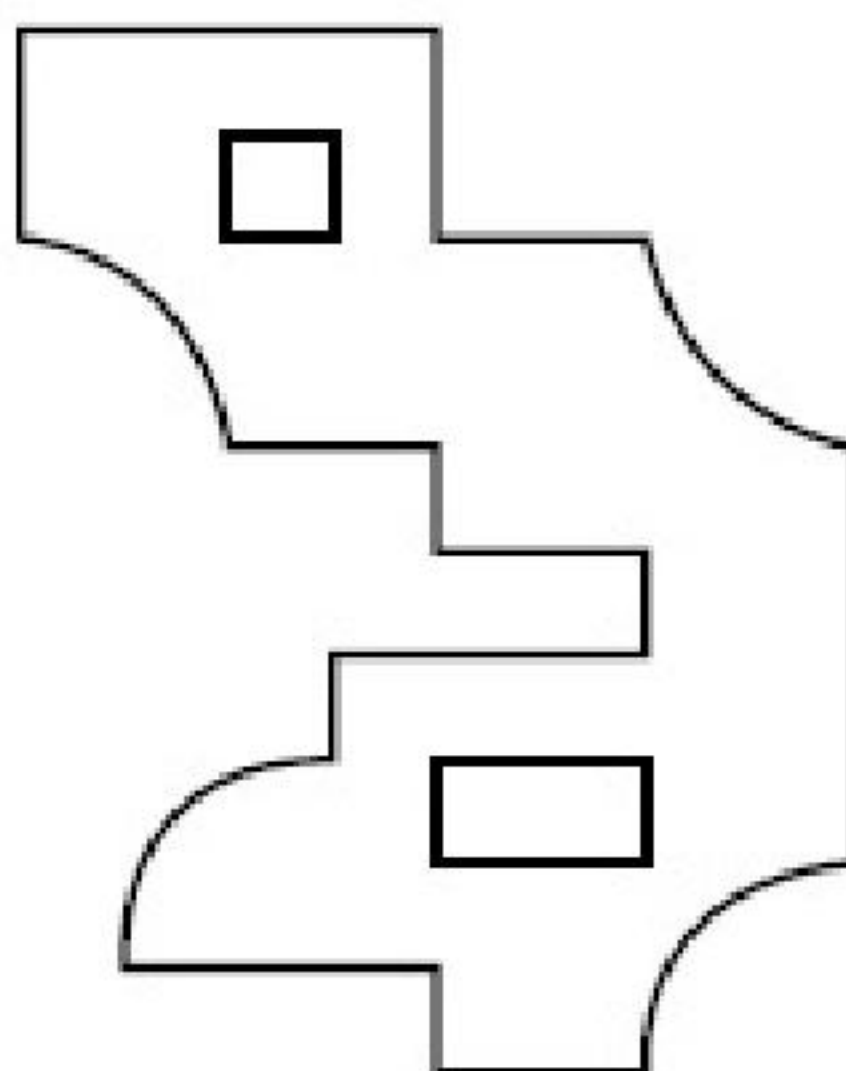
Which one of the answer figures is correct mirror image of problem figure with respect to X-X ?



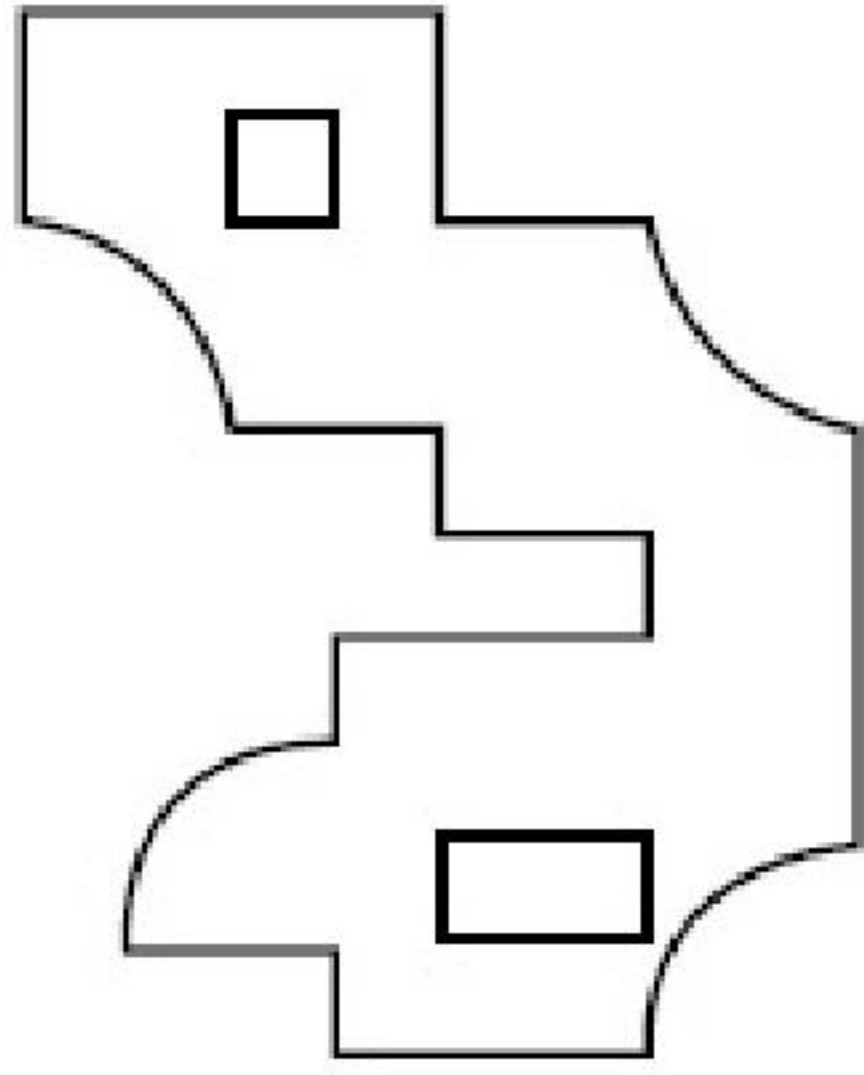
Options :



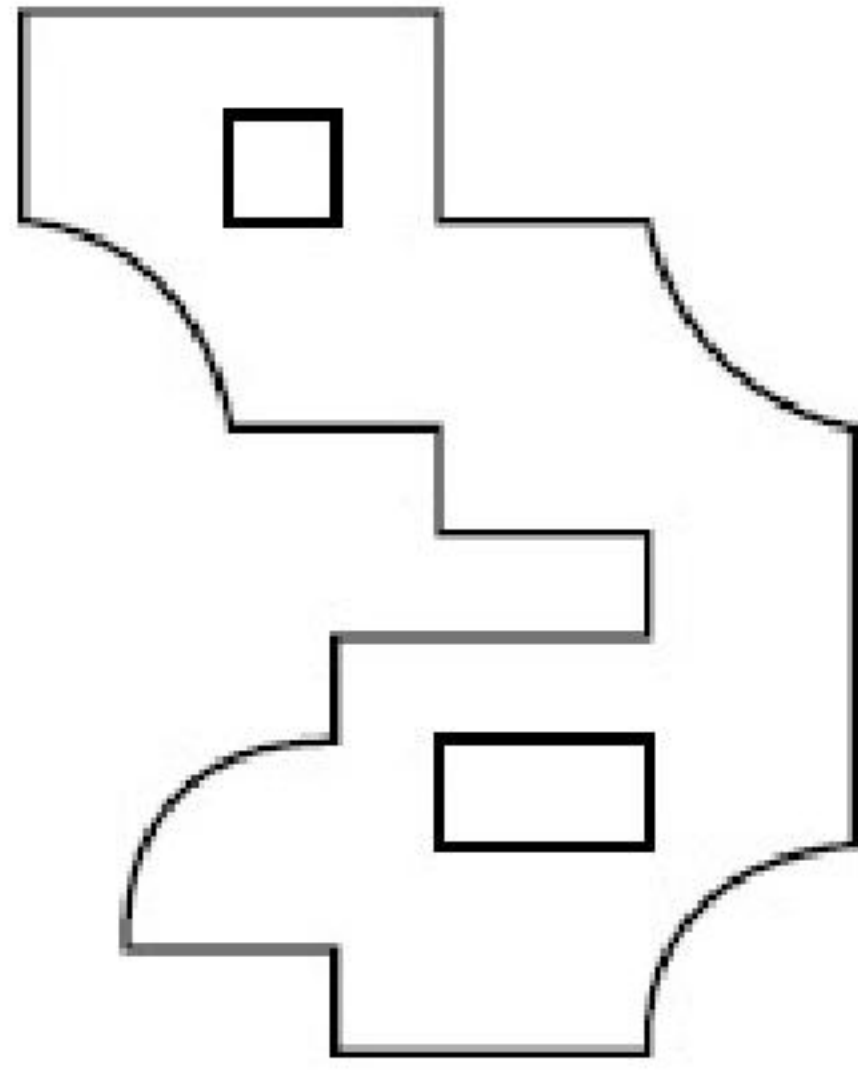
70819145377.



70819145378.



70819145379.



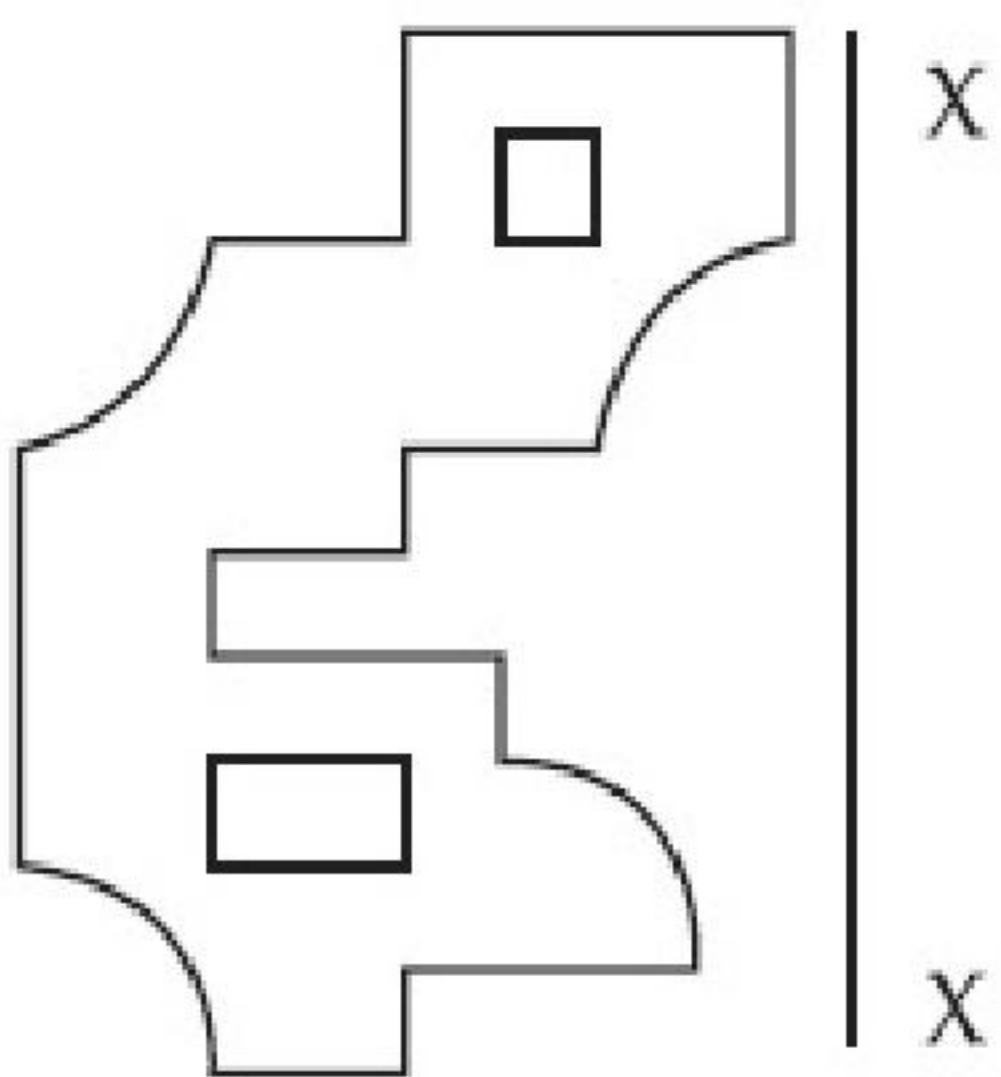
70819145380.

Question Number : 60 Question Id : 70819113701 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

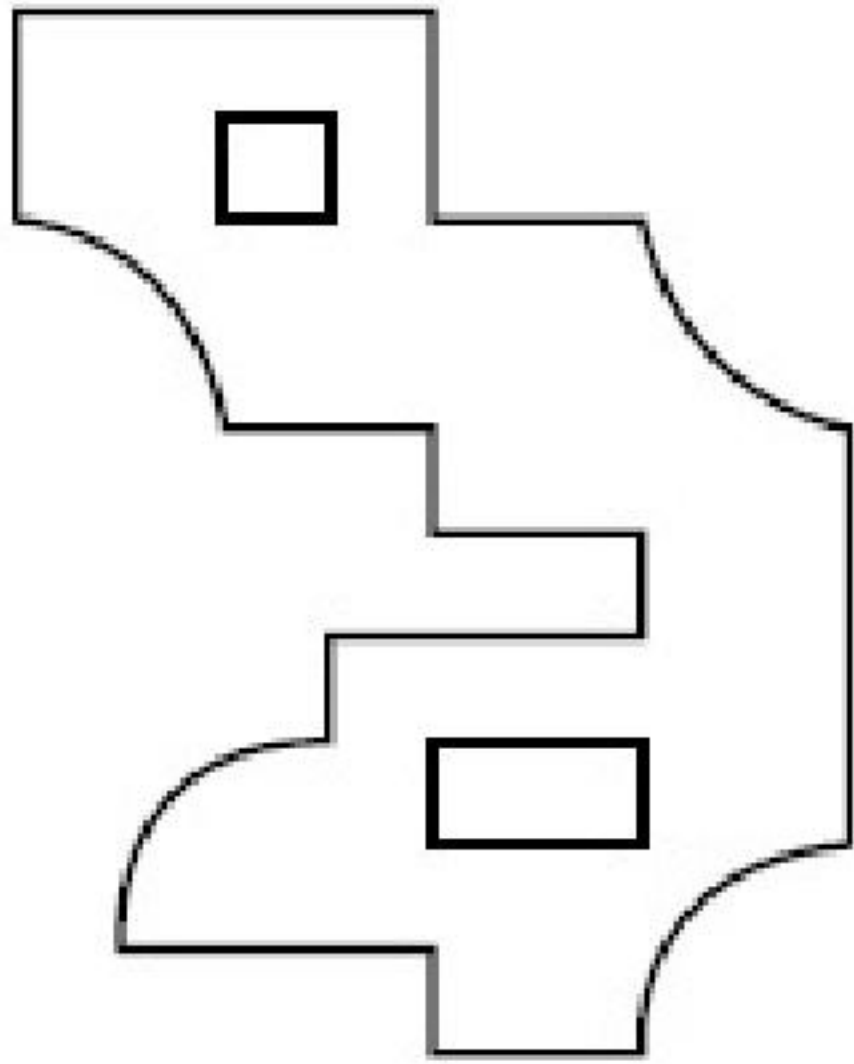
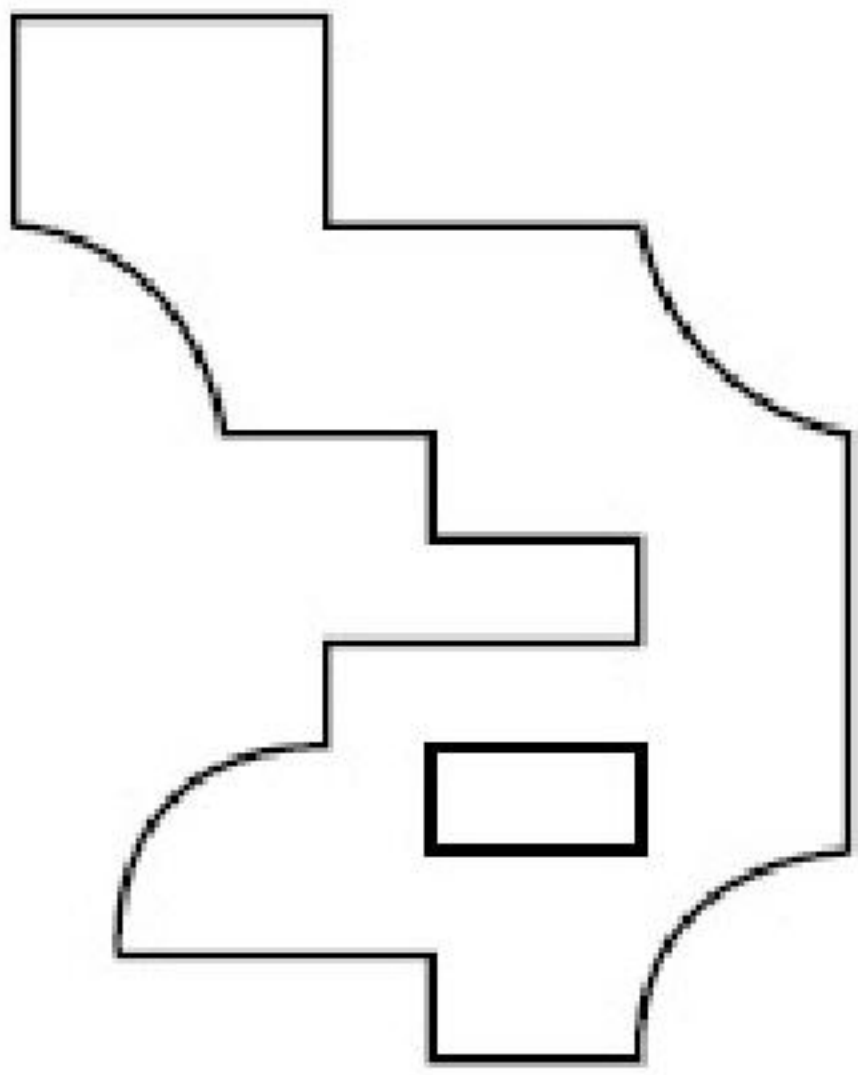
Correct Marks : 4 Wrong Marks : 1

उत्तर आकृतियों में से कौन सी आकृति दी गई प्रश्न आकृति का X-X के सापेक्ष सही प्रतिबिम्ब है?

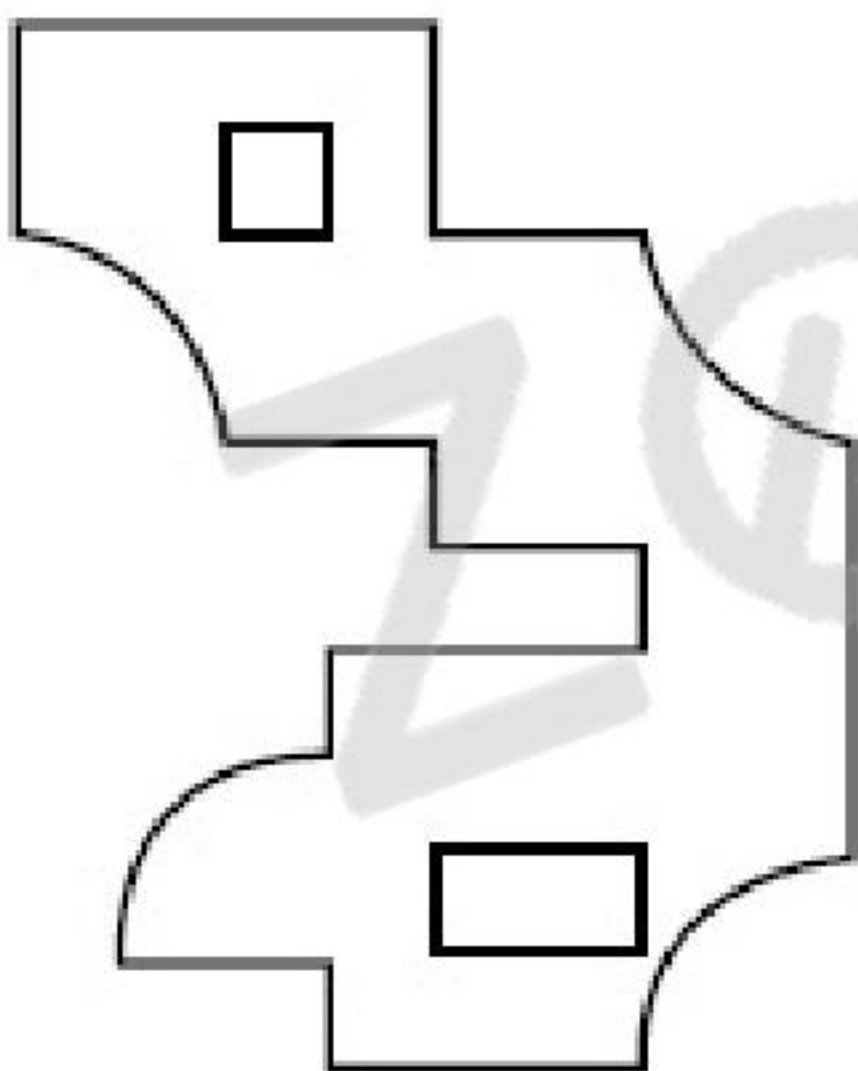


Options :

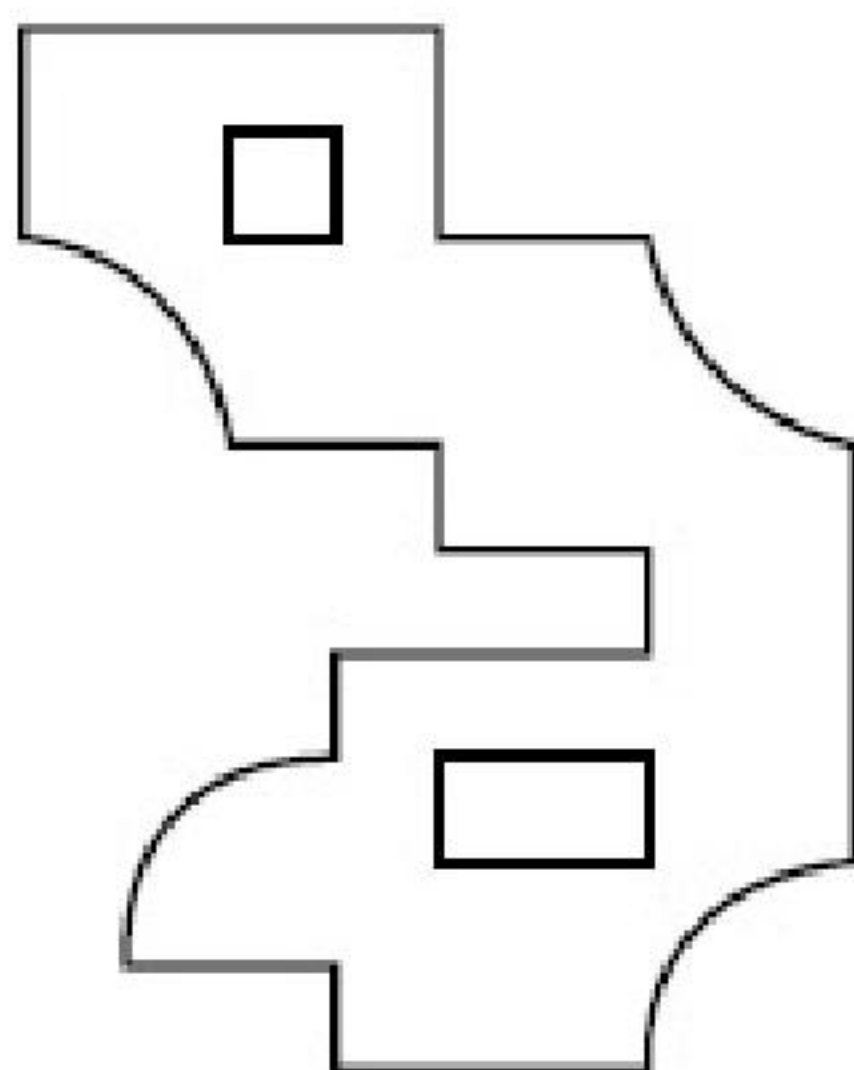
70819145377.



70819145378.



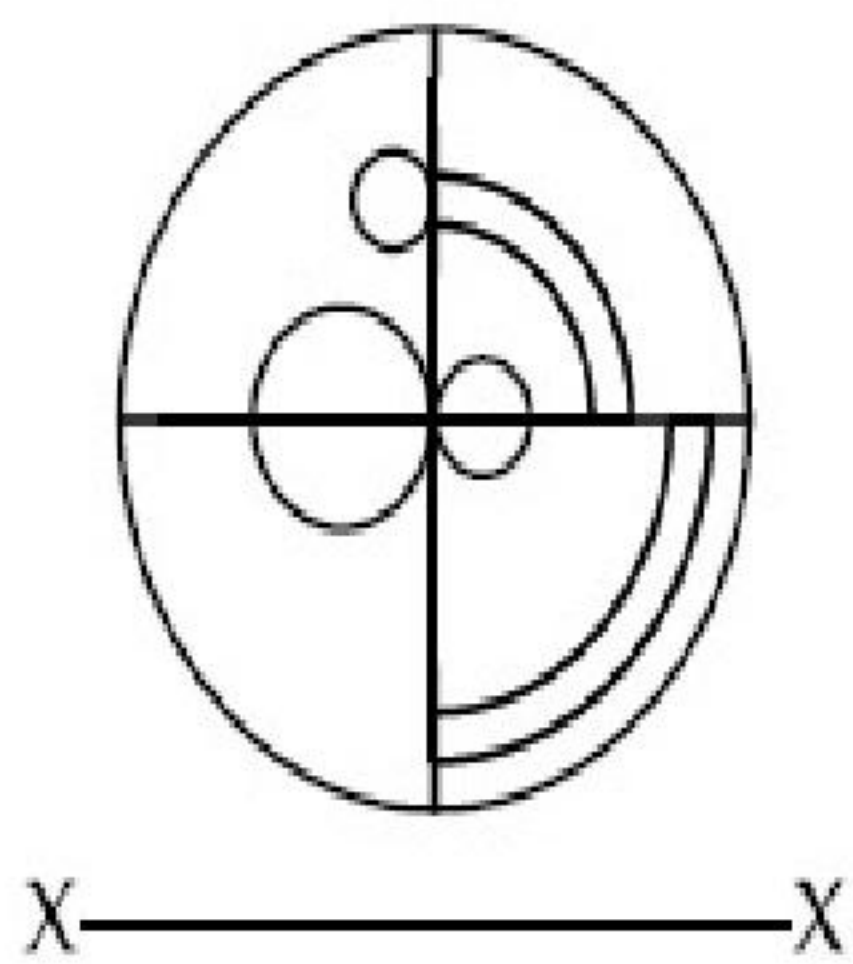
70819145379.



70819145380.

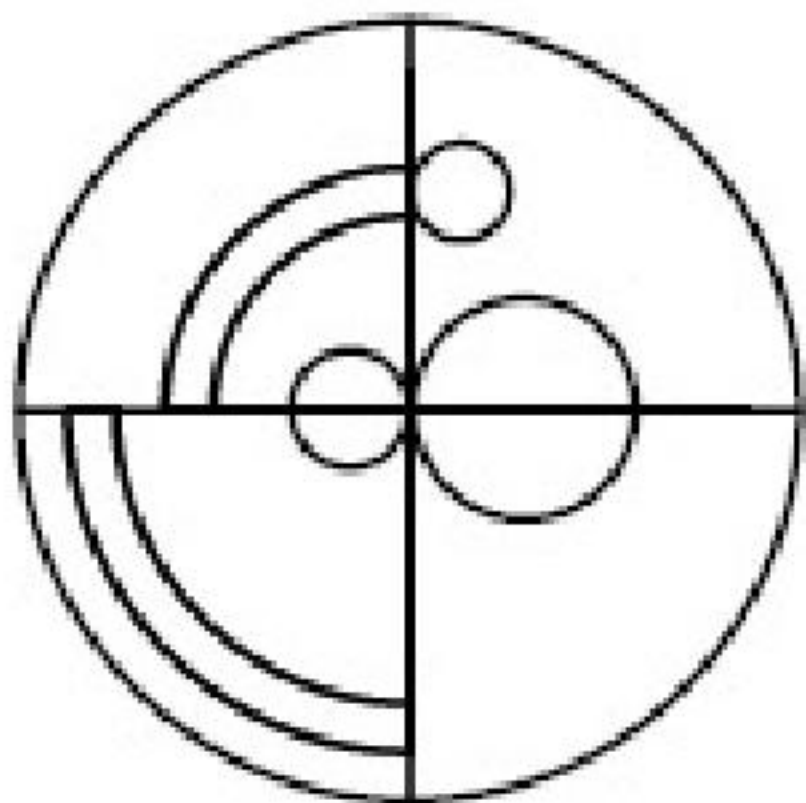
Question Number : 61 Question Id : 70819113702 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No
Correct Marks : 4 Wrong Marks : 1

Which one of the answer figures is the correct mirror image of the problem figure with respect to X-X ?

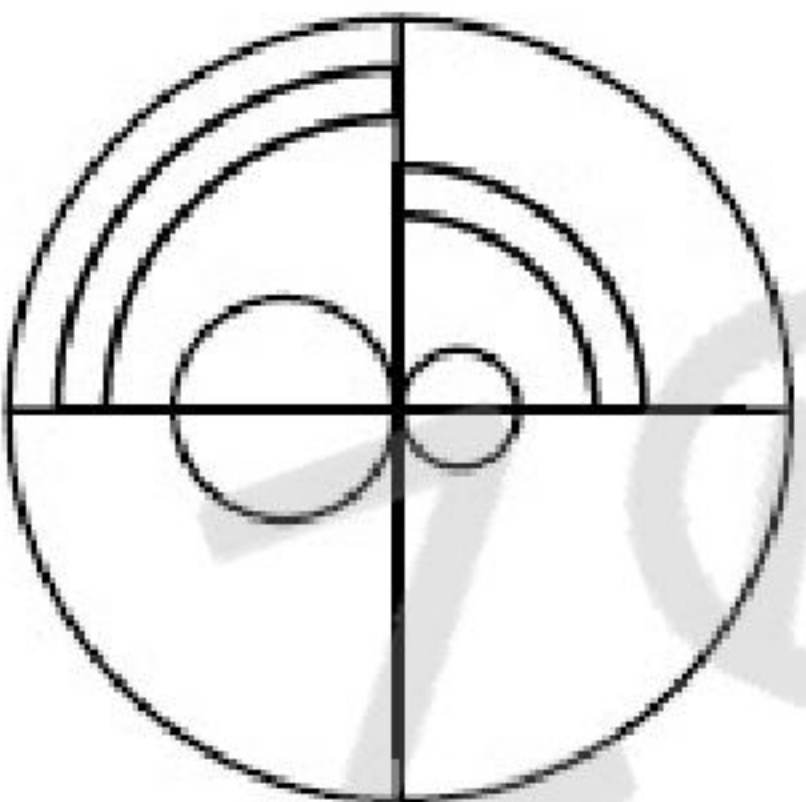


Options :

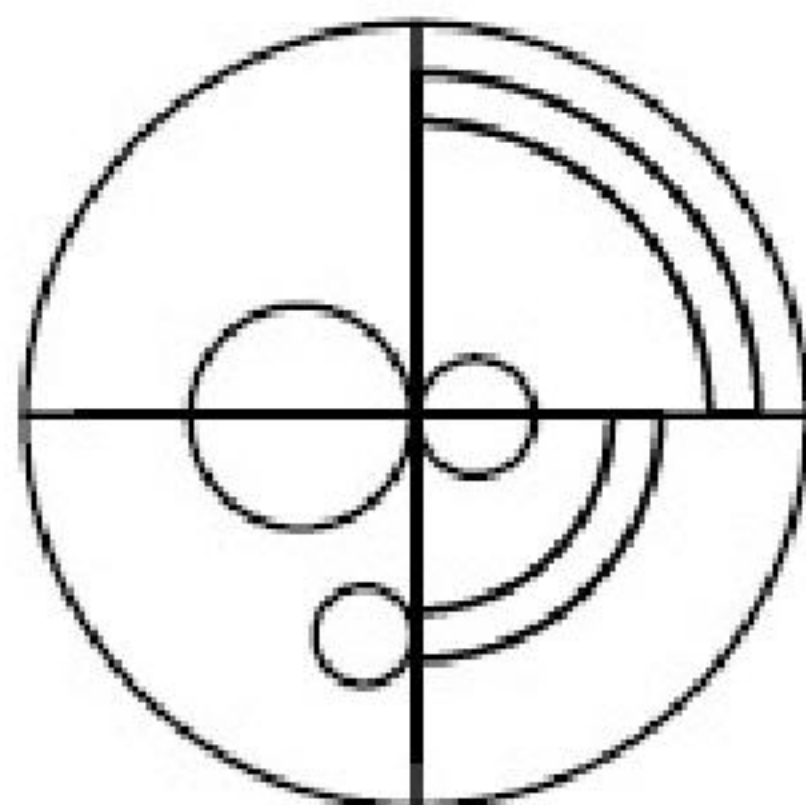
70819145381.



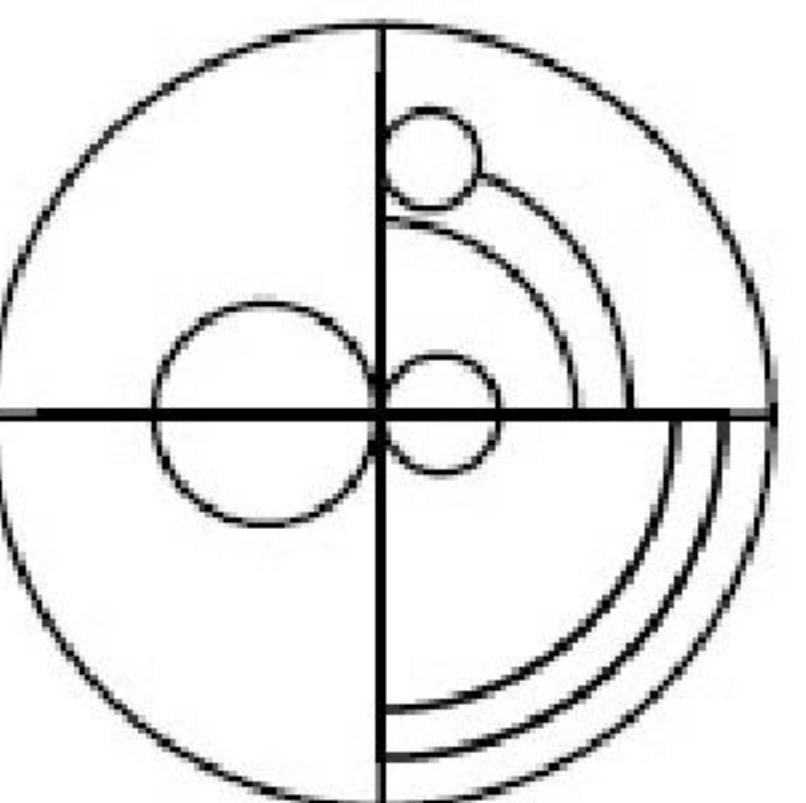
70819145382.



70819145383.



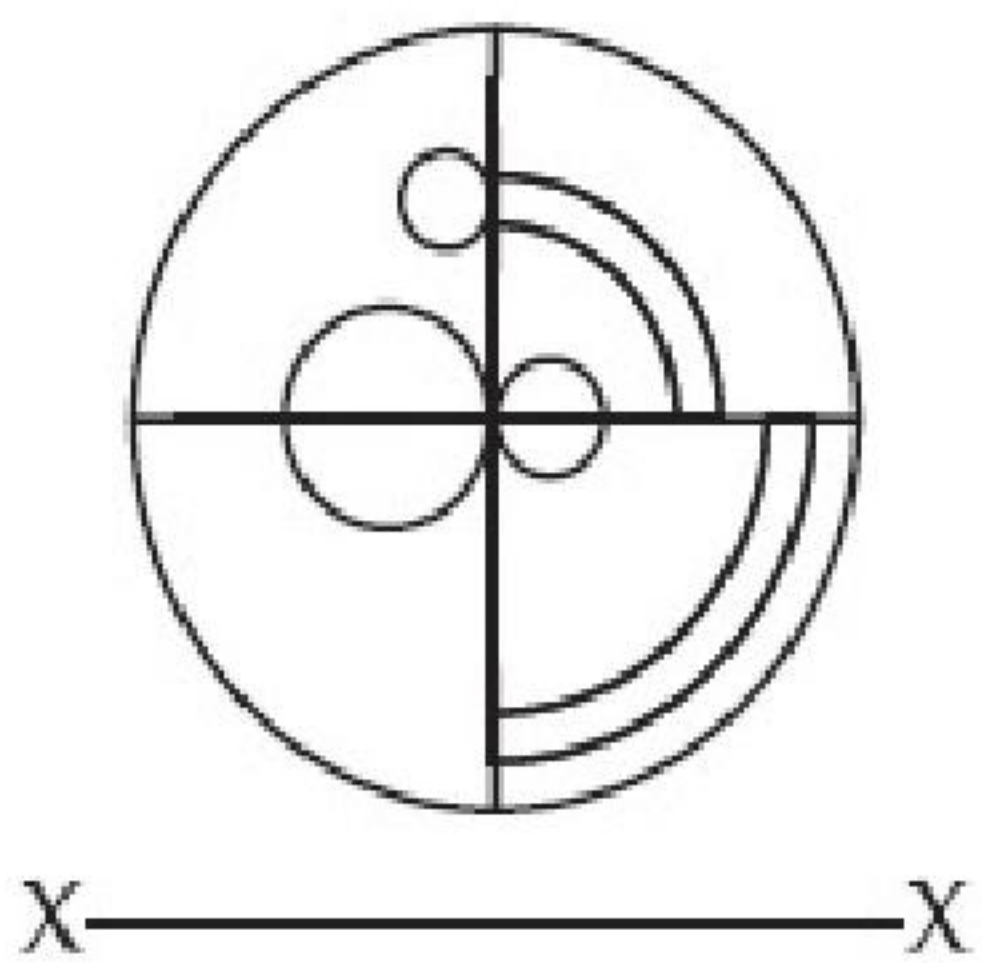
70819145384.



Question Number : 61 Question Id : 70819113702 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

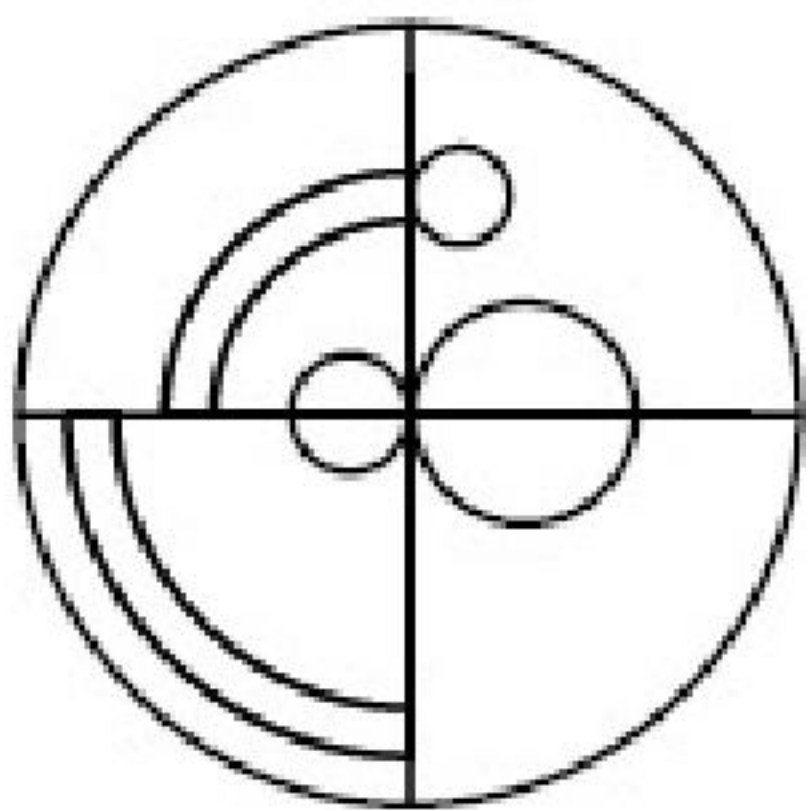
Correct Marks : 4 Wrong Marks : 1

उत्तर आकृतियों में से कौन सी आकृति दी गई प्रश्न आकृति का X-X के सापेक्ष सही प्रतिबिम्ब है?

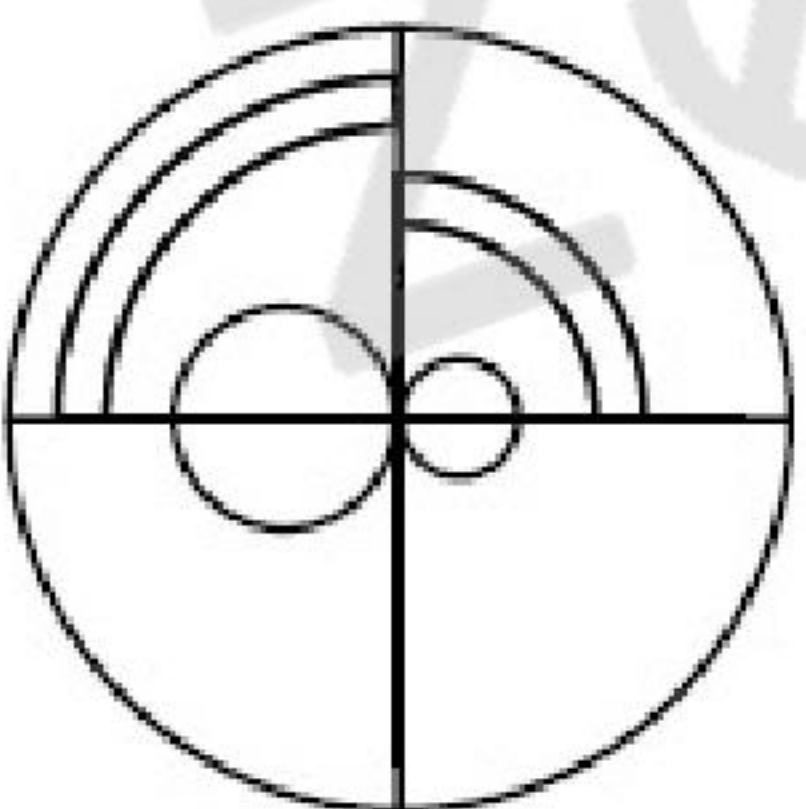


Options :

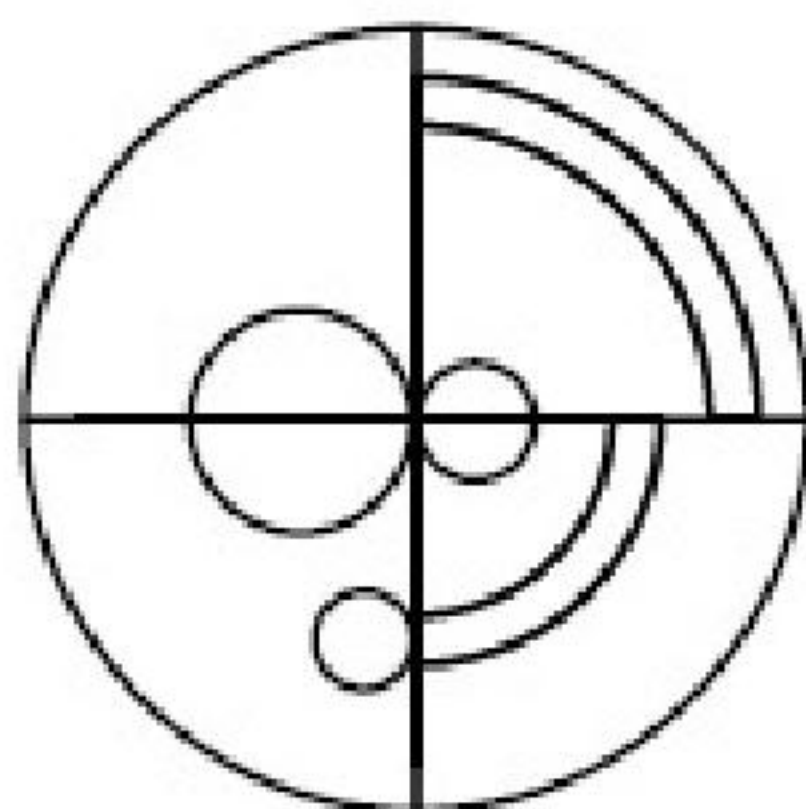
70819145381.



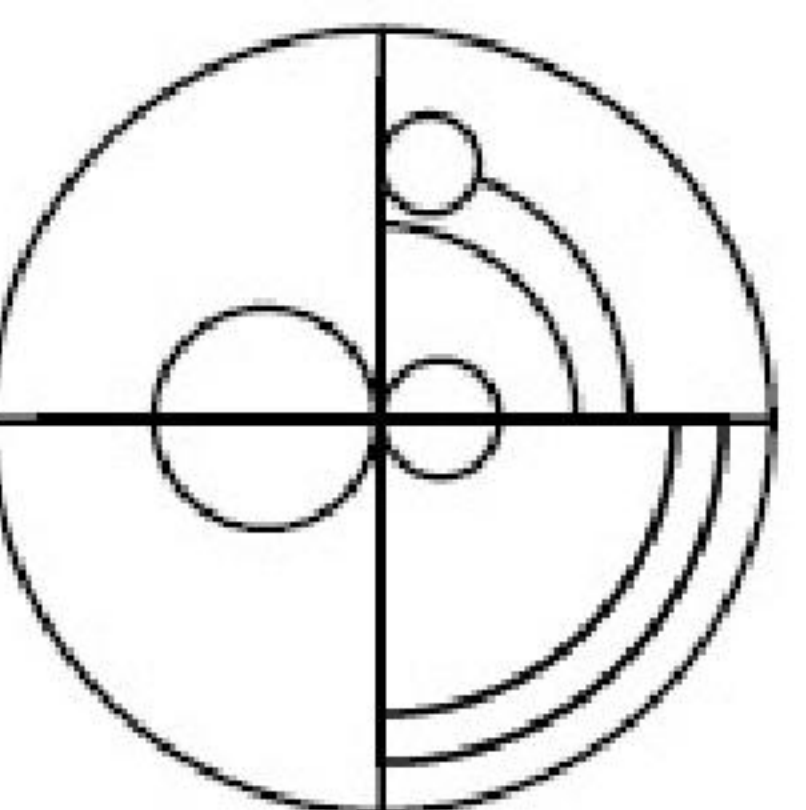
70819145382.



70819145383.



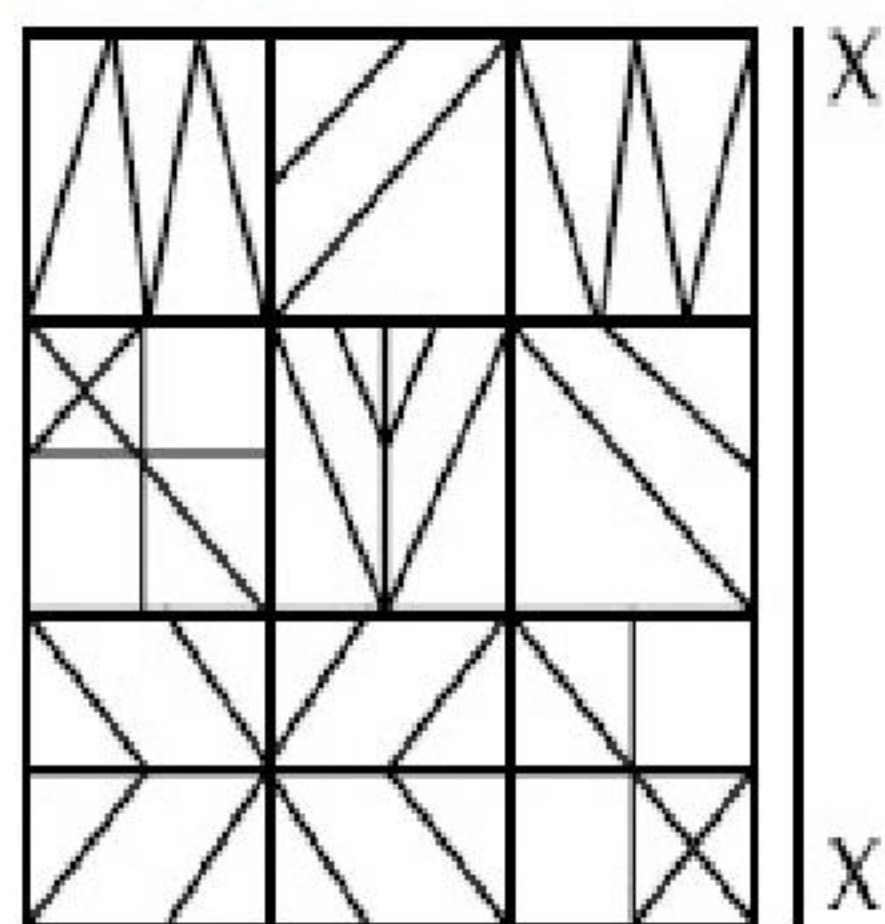
70819145384.



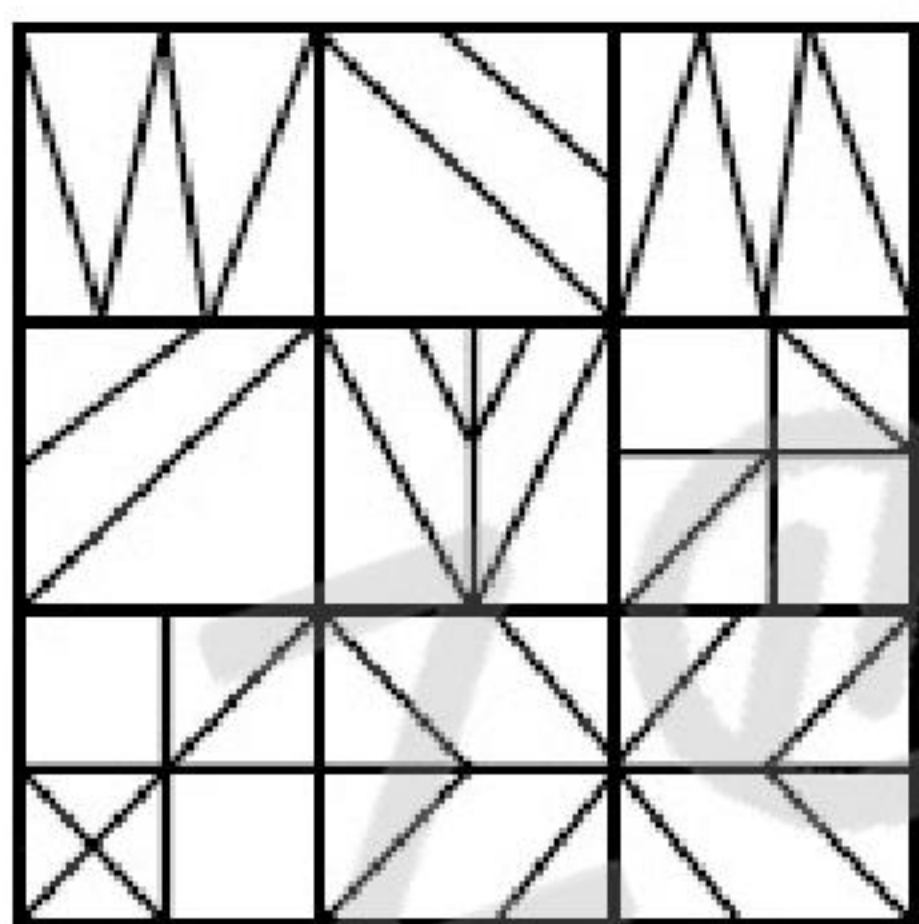
Question Number : 62 Question Id : 70819113703 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

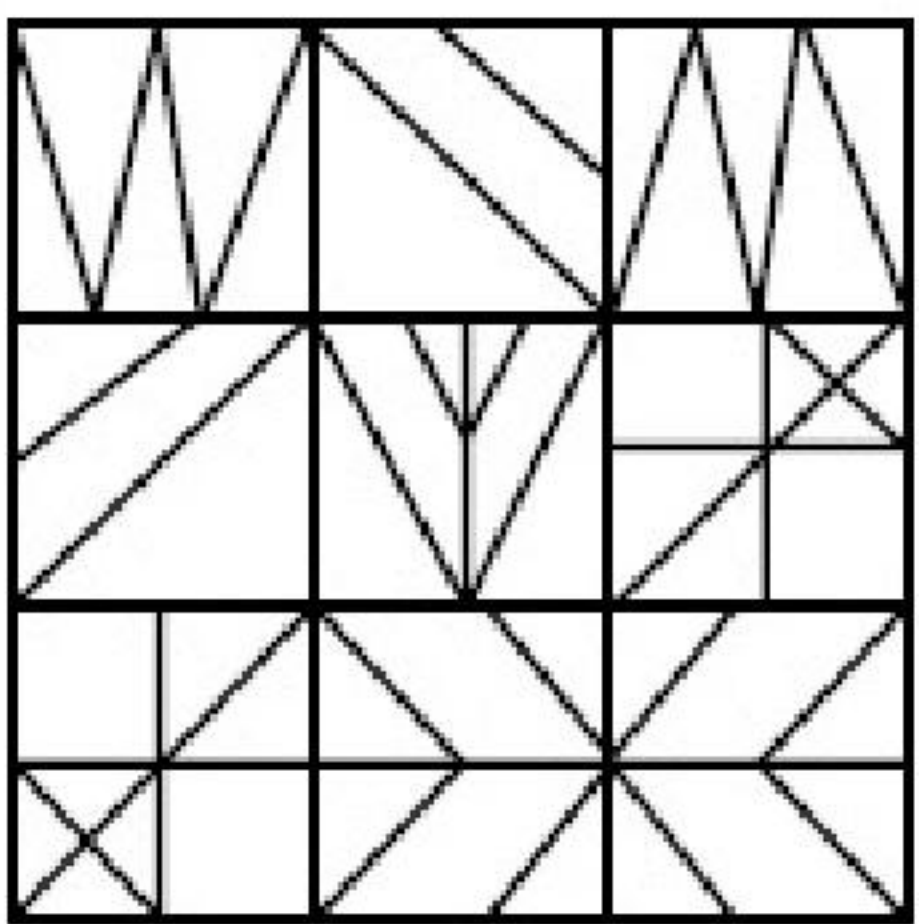
Which one of the answer figures is the correct mirror image of the problem figure with respect to X-X ?



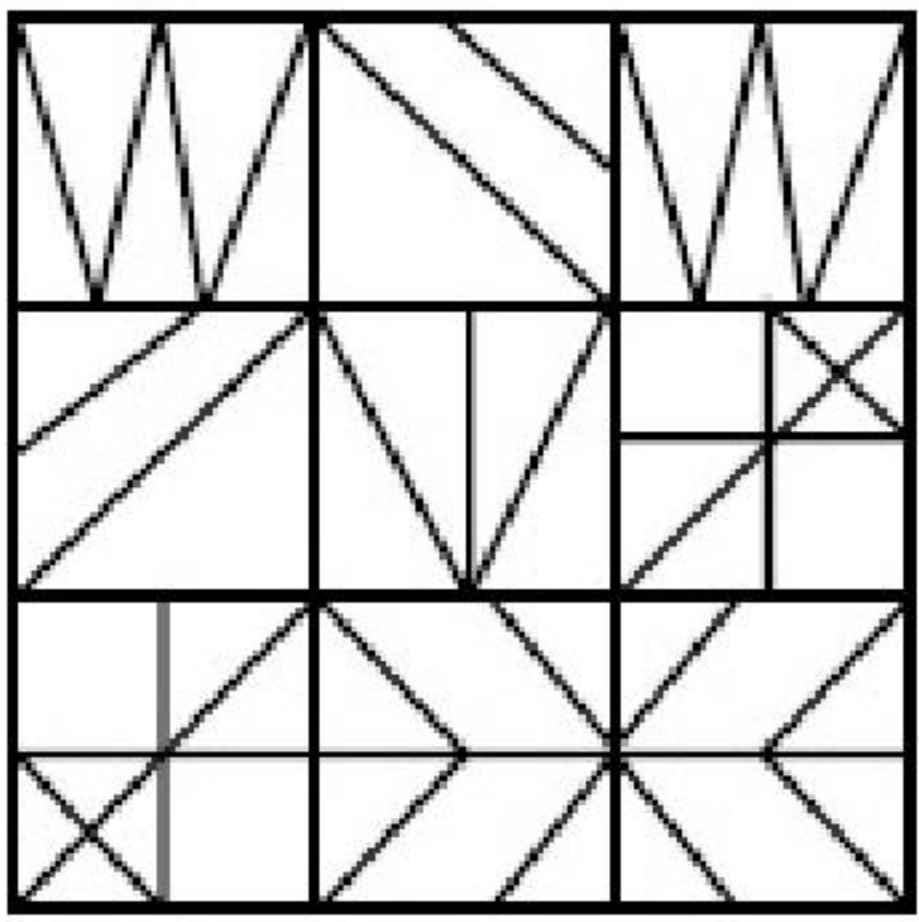
Options :



70819145385.

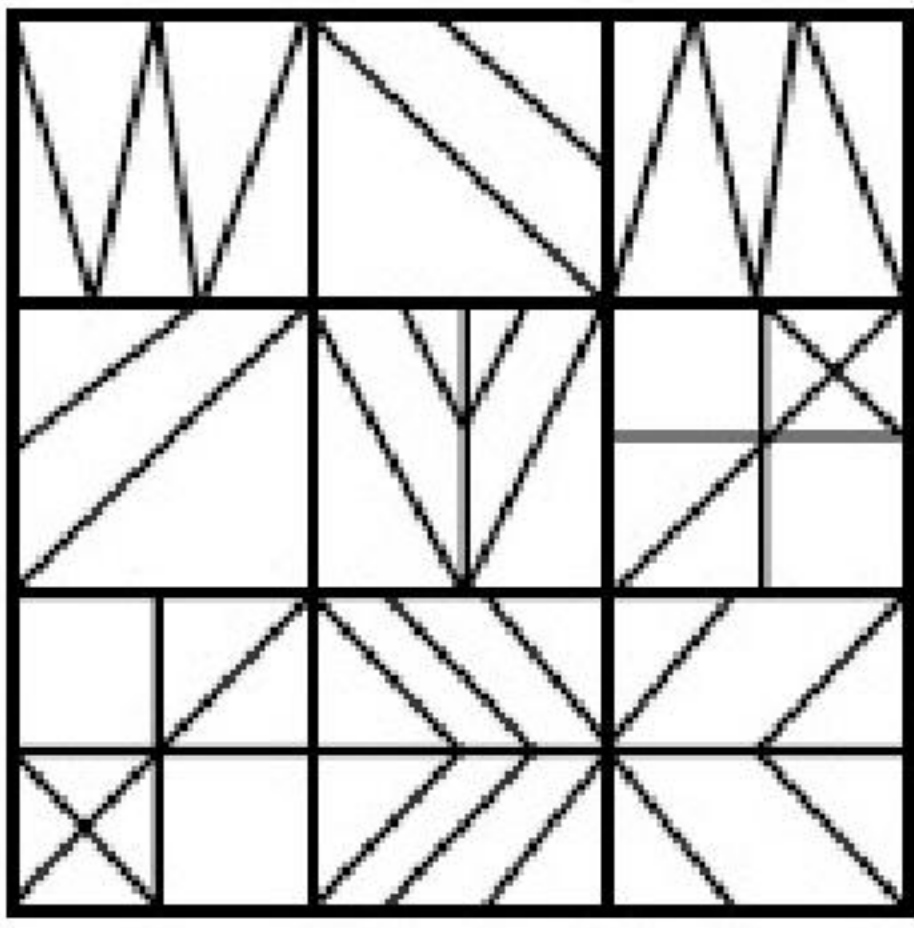


70819145386.



70819145387.

70819145388.

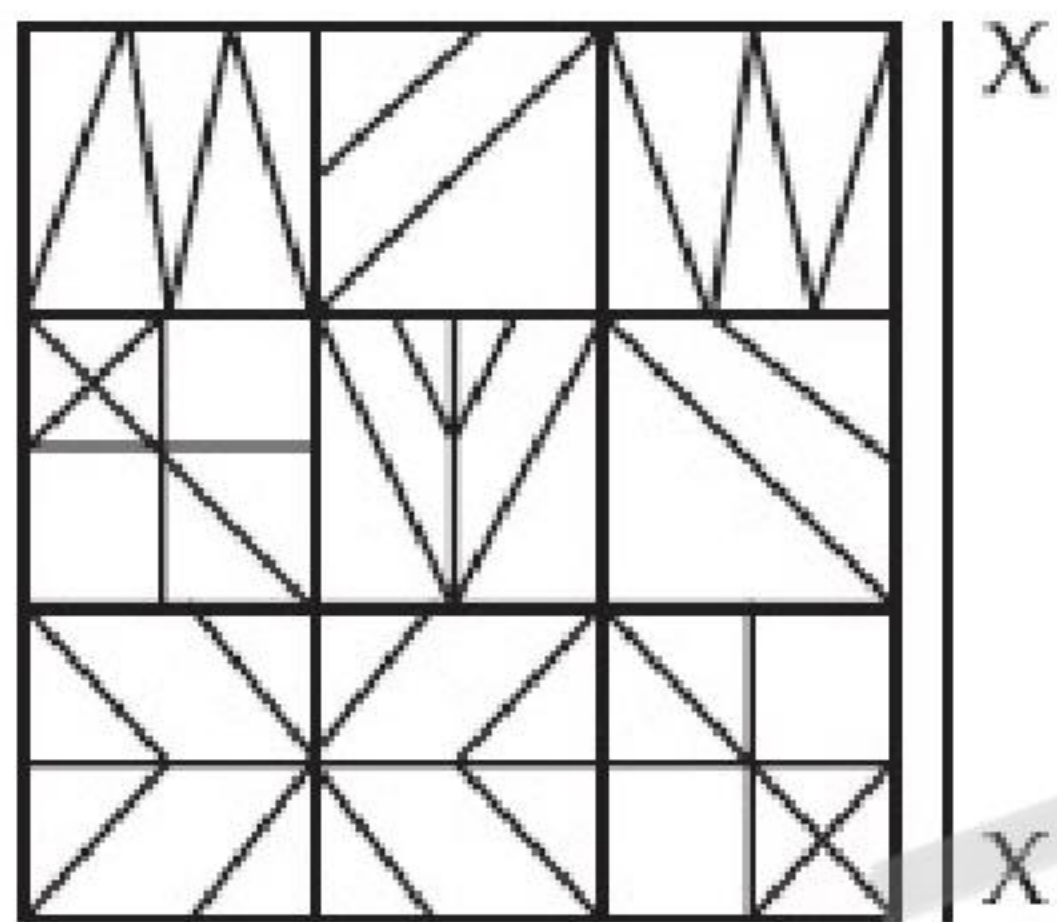


Question Number : 62 Question Id : 70819113703 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

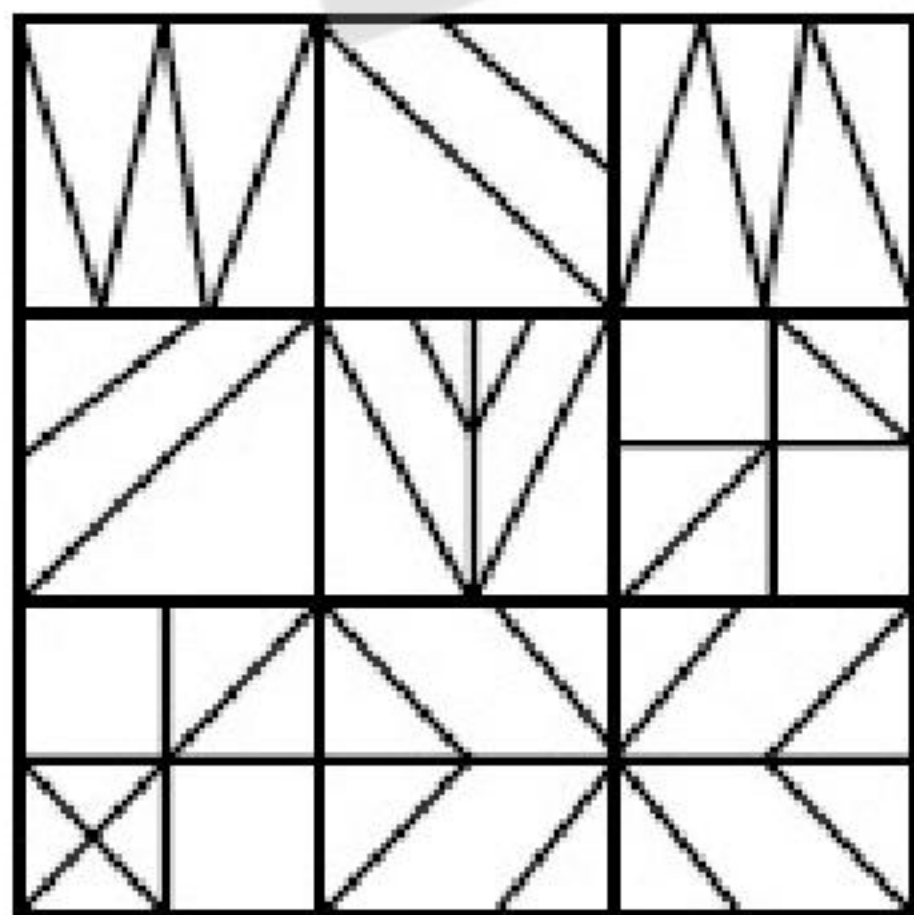
उत्तर आकृतियों में से कौन सी आकृति दी गई प्रश्न आकृति का X-X के सापेक्ष सही प्रतिबिम्ब है?



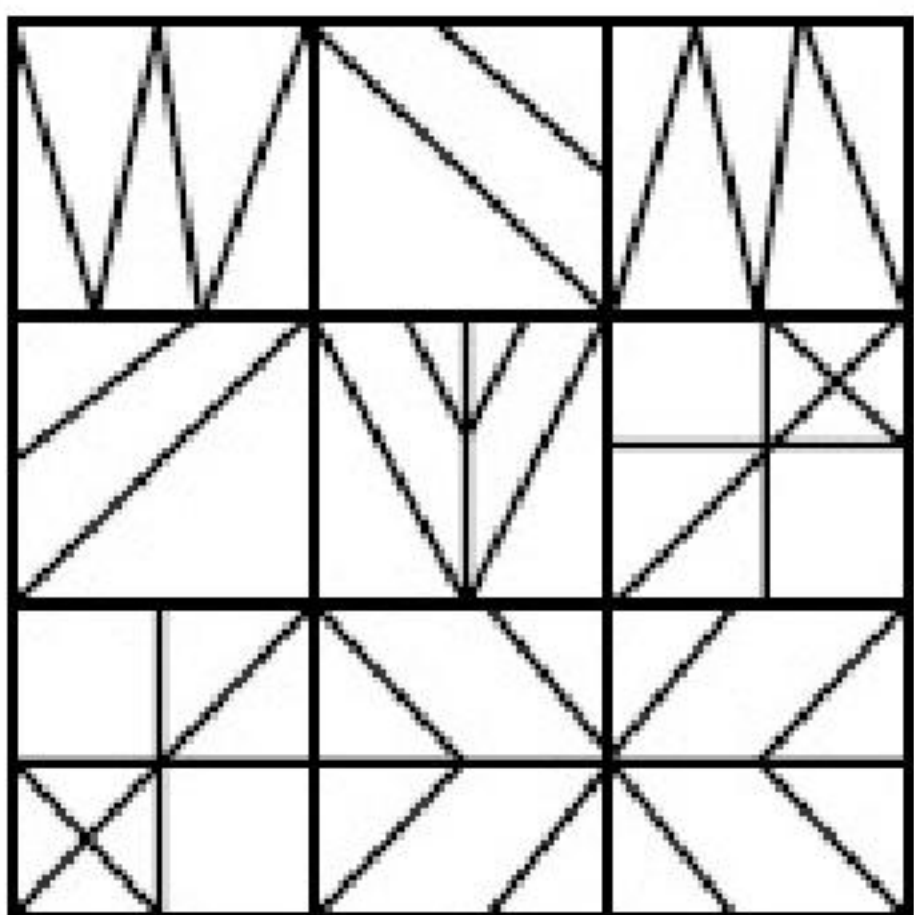
X

X

Options :

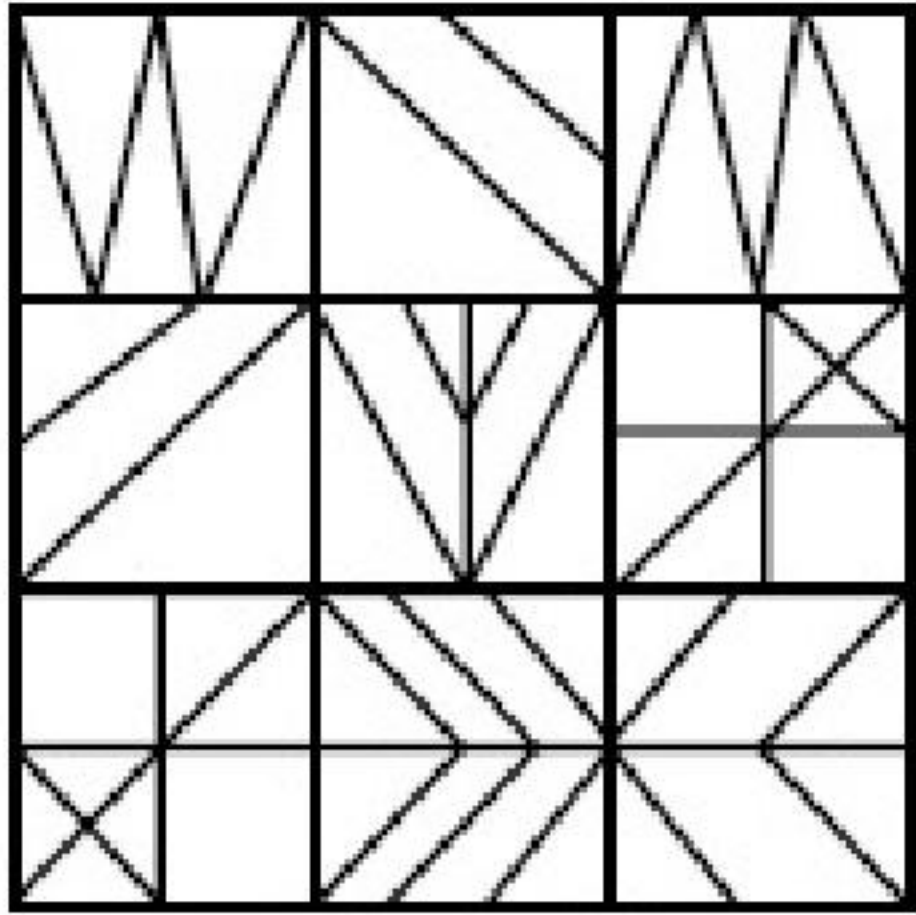
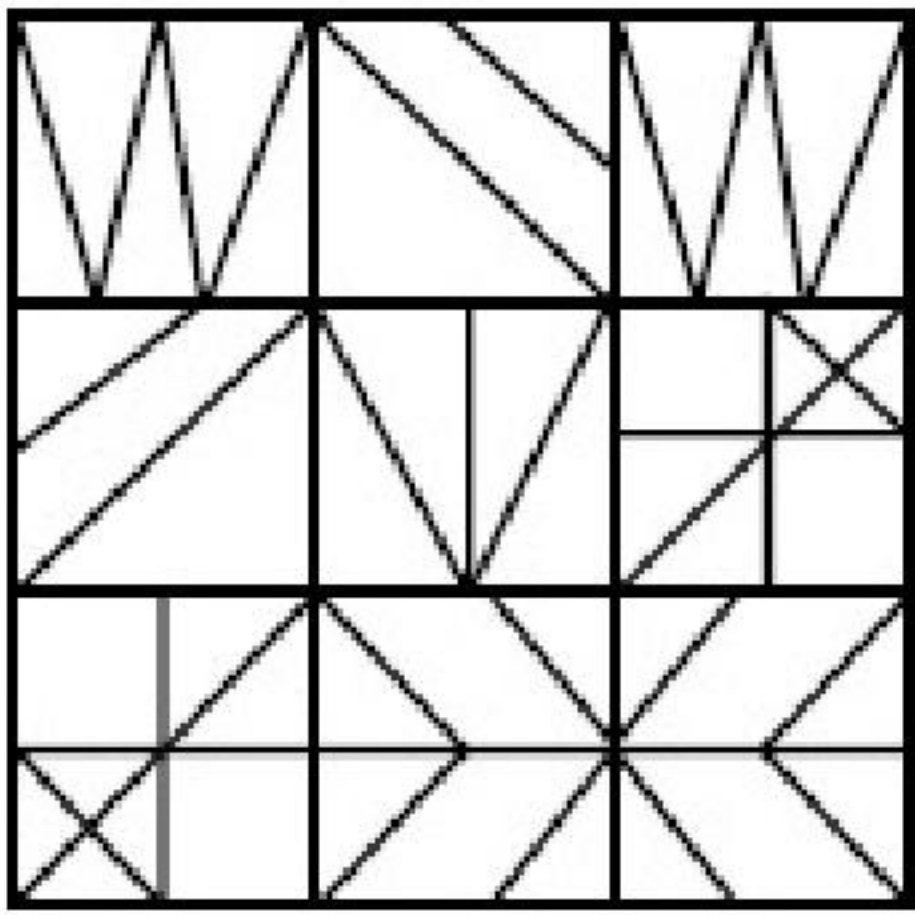


70819145385.



70819145386.

70819145387.

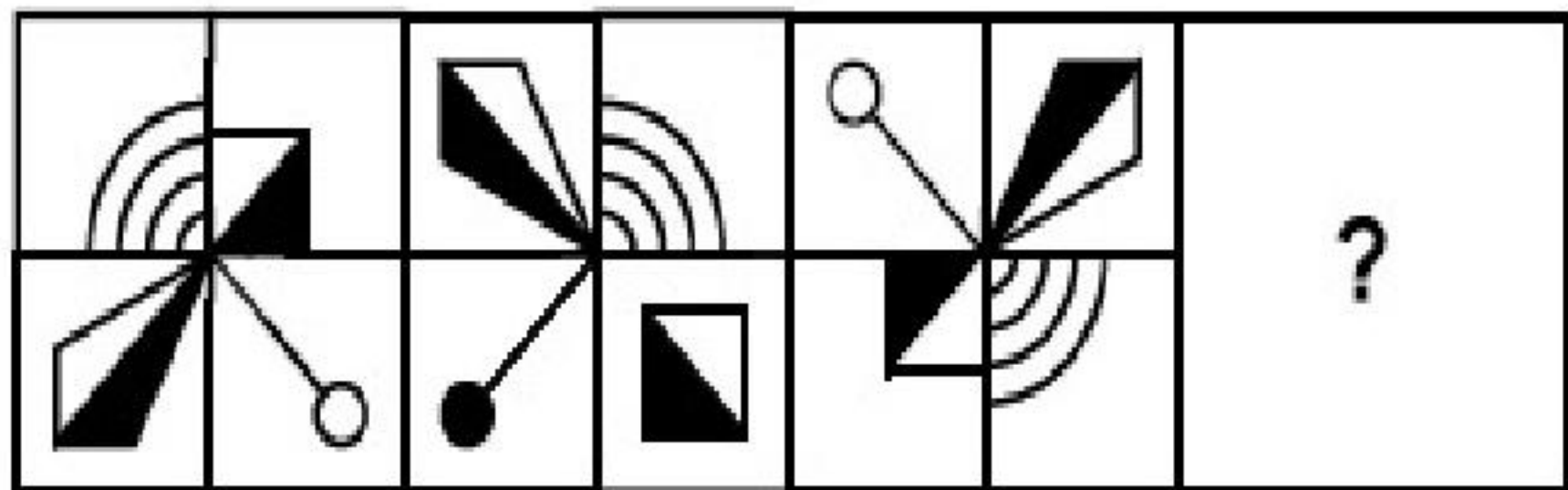


70819145388.

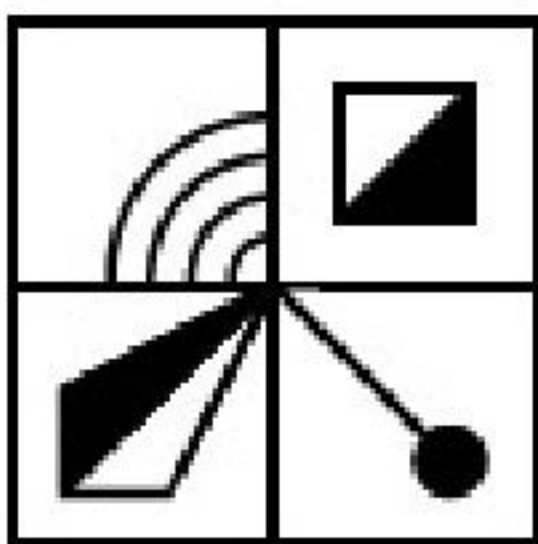
Question Number : 63 Question Id : 70819113704 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

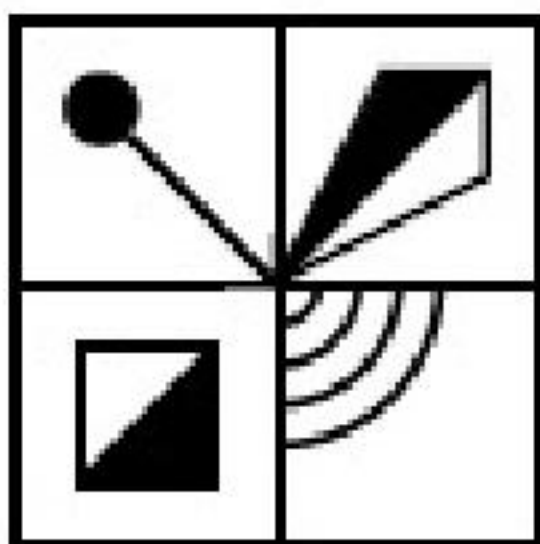
Which one of the answer figures complete the sequence of the problem figure ? Select the correct one.



Options :

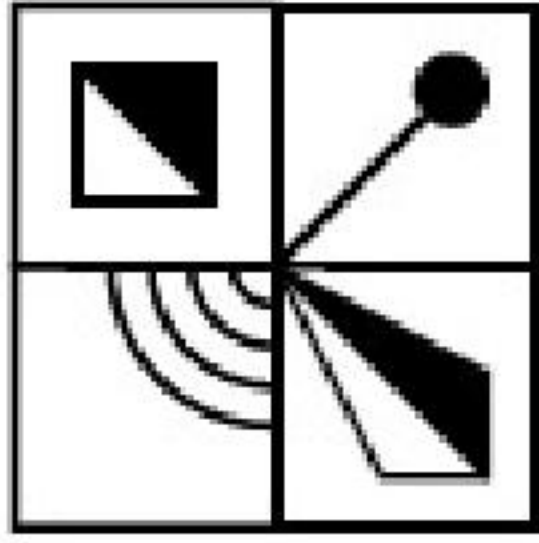
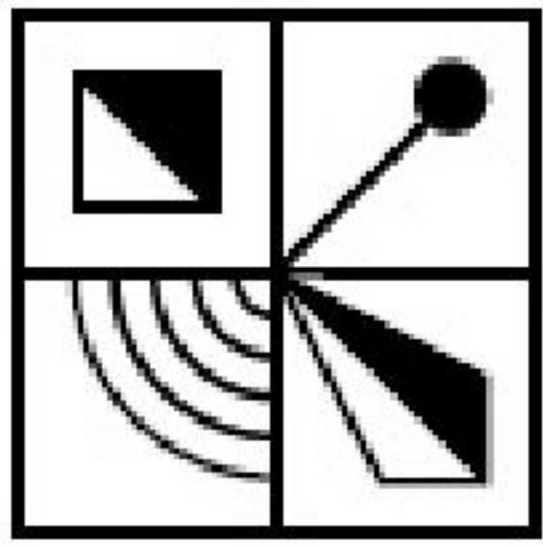


70819145389.



70819145390.

70819145391.



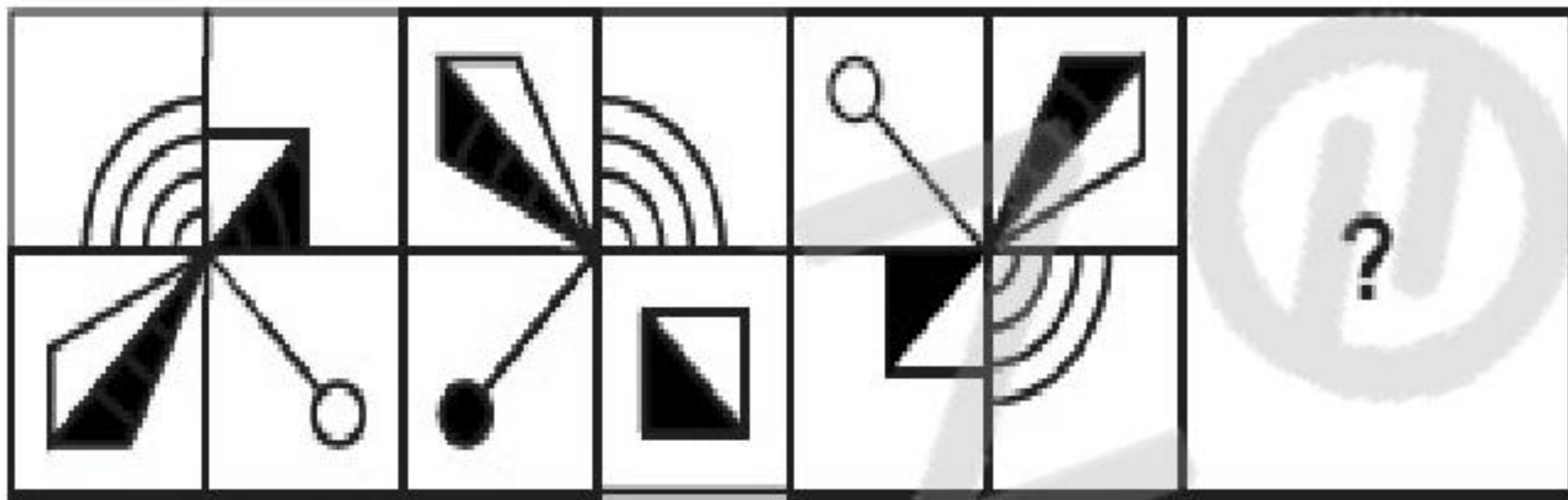
70819145392.

Question Number : 63 Question Id : 70819113704 Question Type : MCQ Option Shuffling : Yes

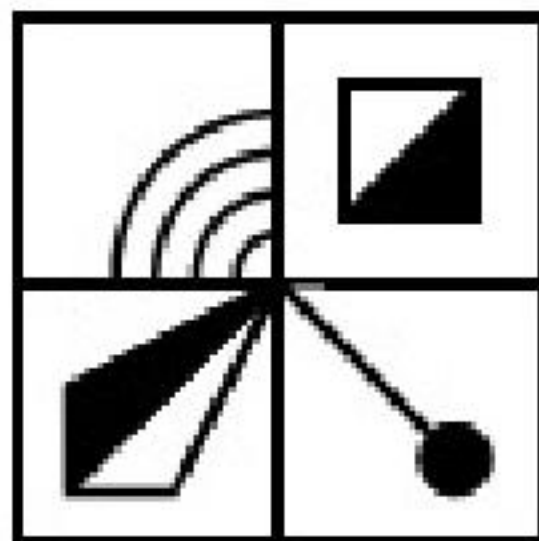
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

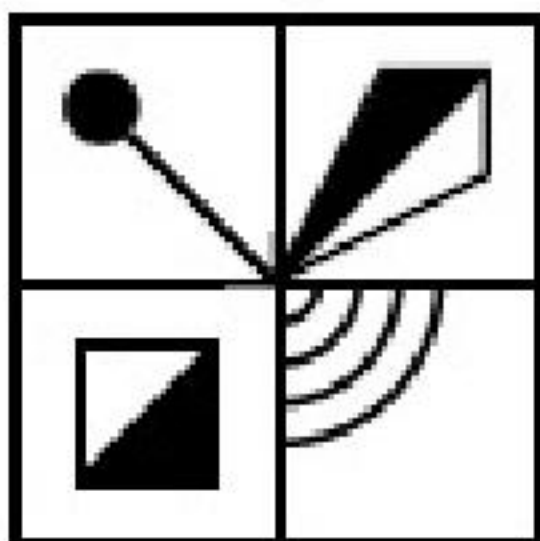
उत्तर आकृतियों में से कौन सी आकृति को तीन अनुक्रमित प्रश्न आकृति में लगाने से अनुक्रम (sequence) पूरा हो जाएगा ?



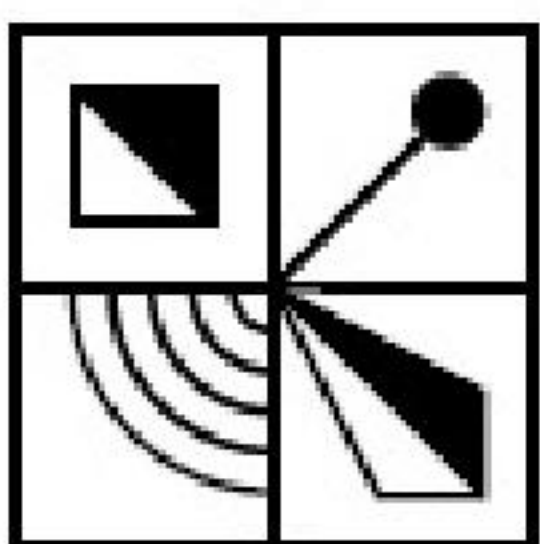
Options :



70819145389.

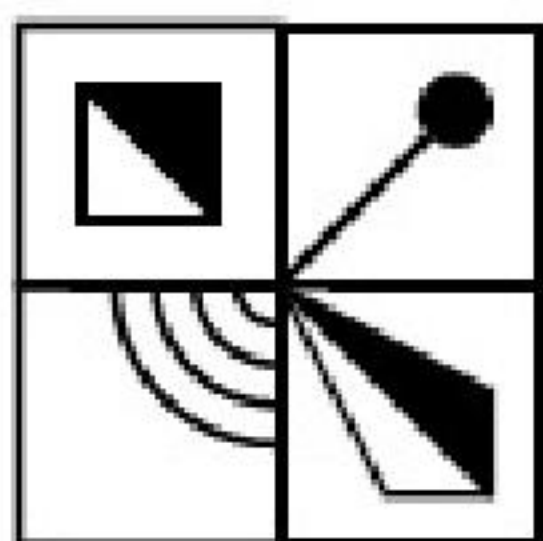


70819145390.



70819145391.

70819145392.

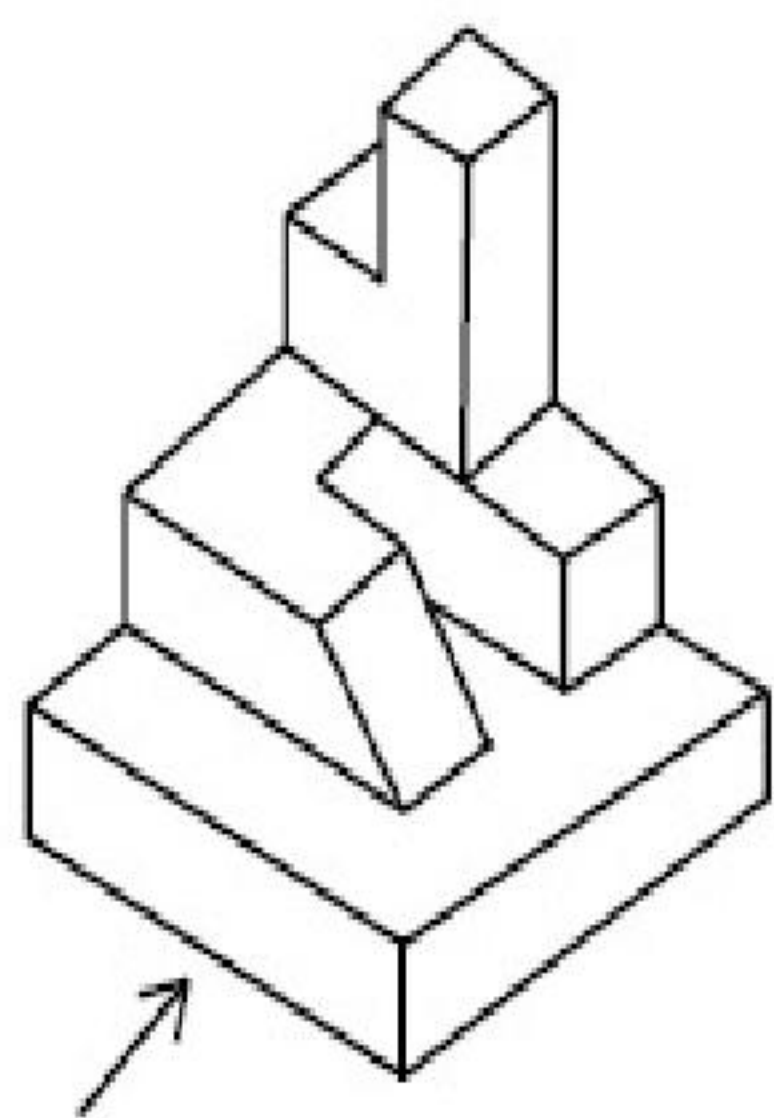


Question Number : 64 Question Id : 70819113705 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

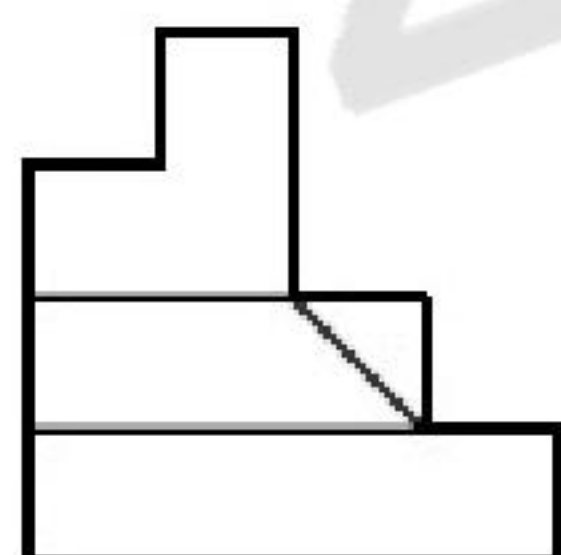
Correct Marks : 4 Wrong Marks : 1

The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.

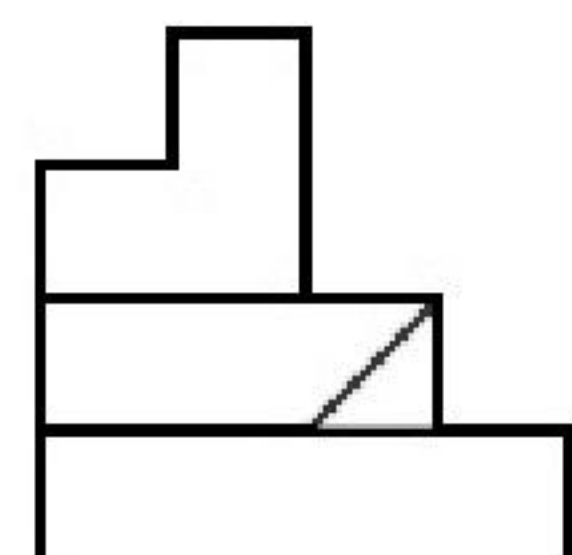


Options :

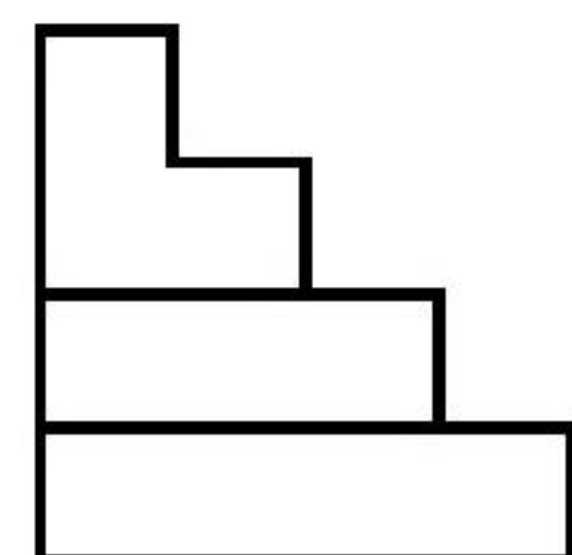
70819145393.



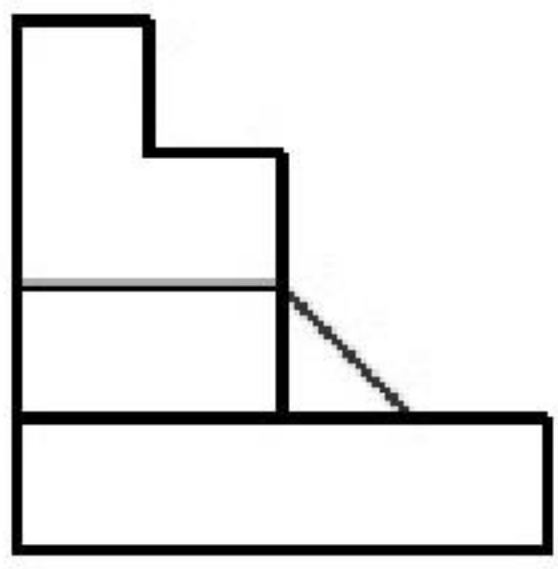
70819145394.



70819145395.



70819145396.

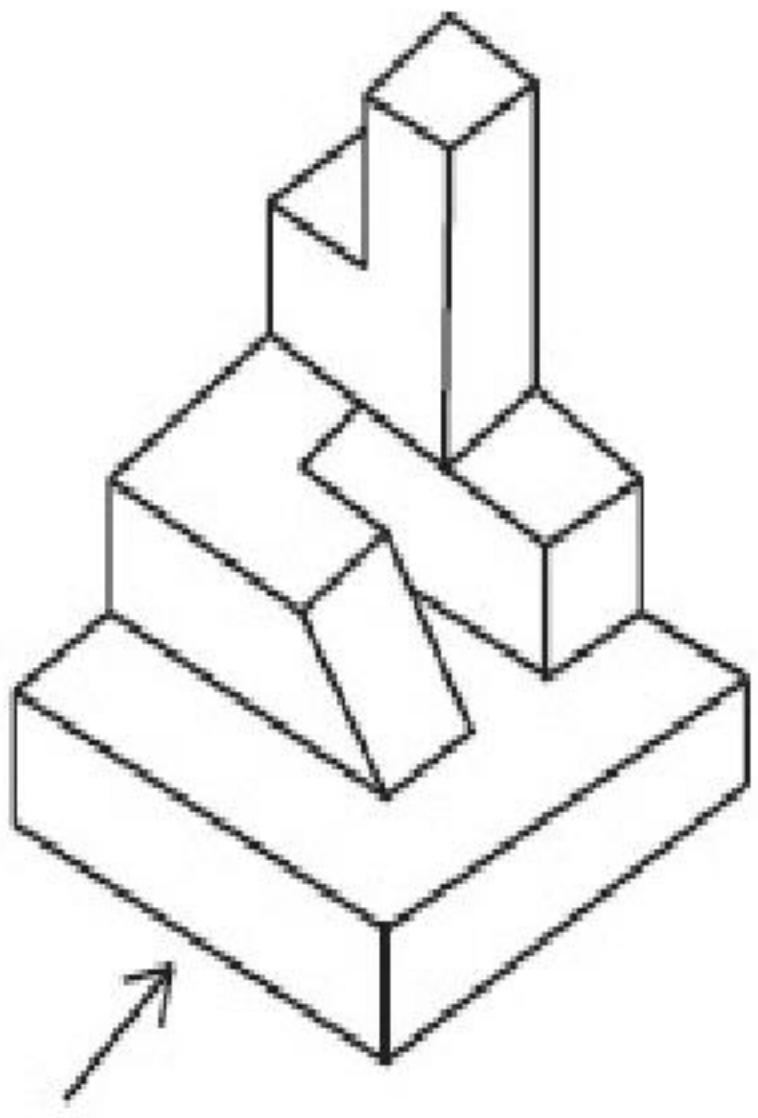


Question Number : 64 Question Id : 70819113705 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

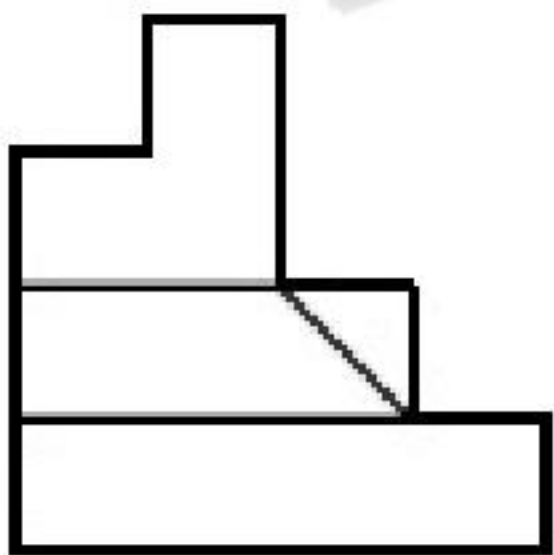
Correct Marks : 4 Wrong Marks : 1

3D आकृति में एक वस्तु के एक दृश्य को दिखाया गया है। तीर की दिशा में देखते हुए, सही दृश्य को उत्तर आकृतियों में से पहचानिए।

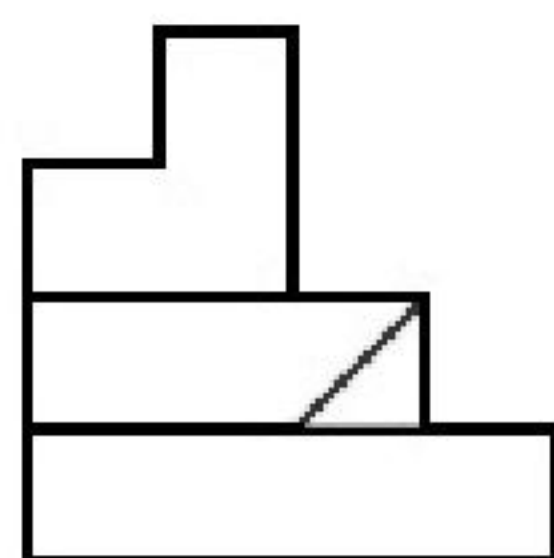


Options :

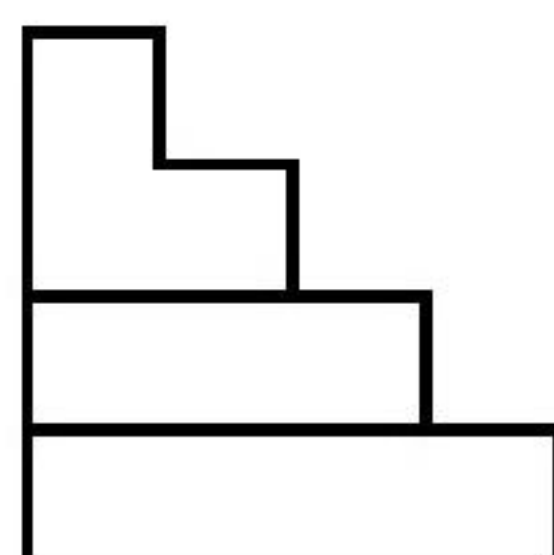
70819145393.



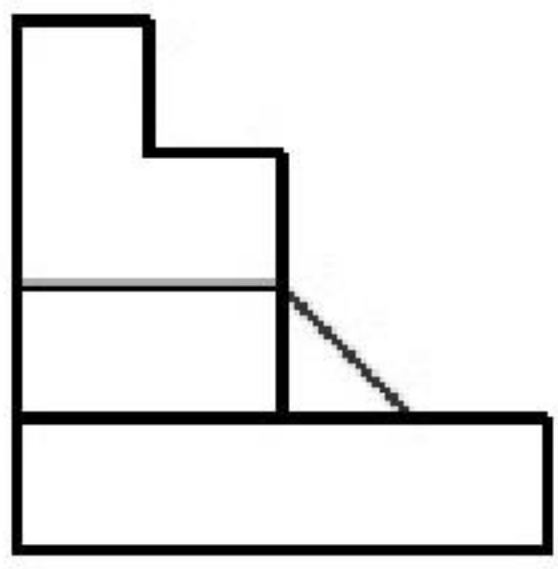
70819145394.



70819145395.

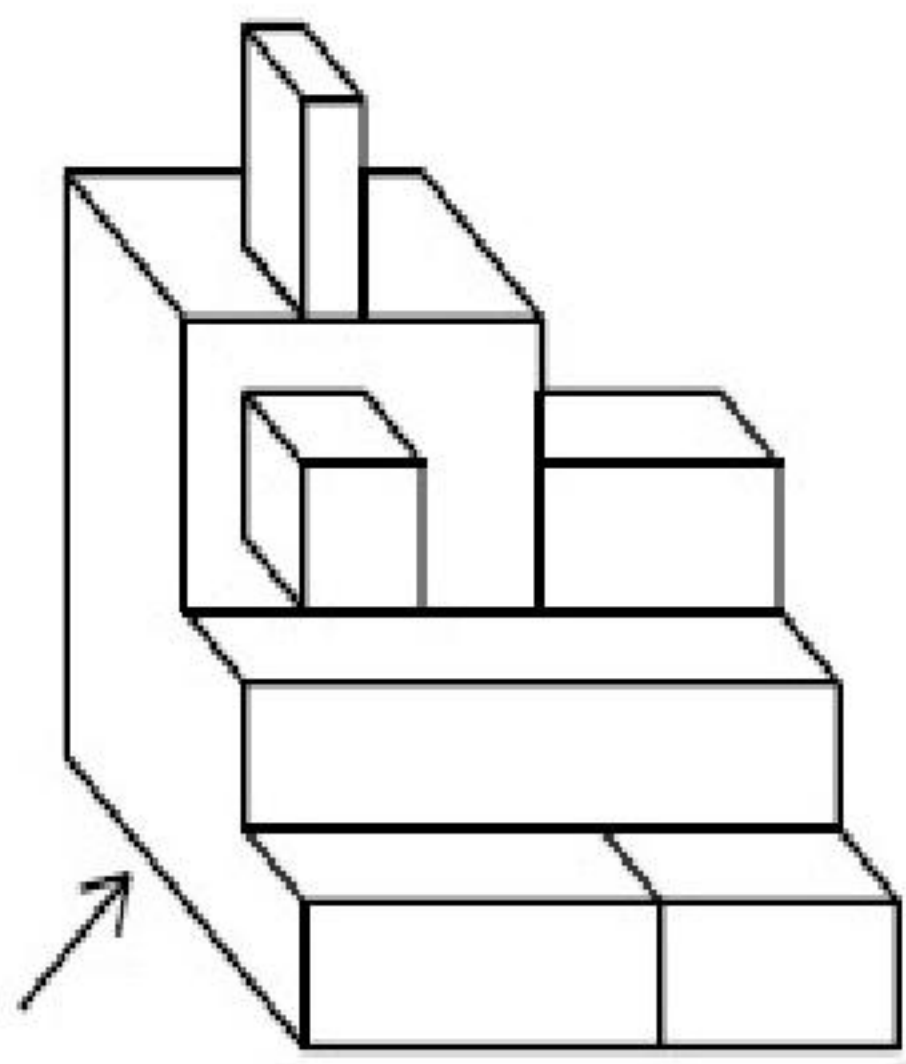


70819145396.

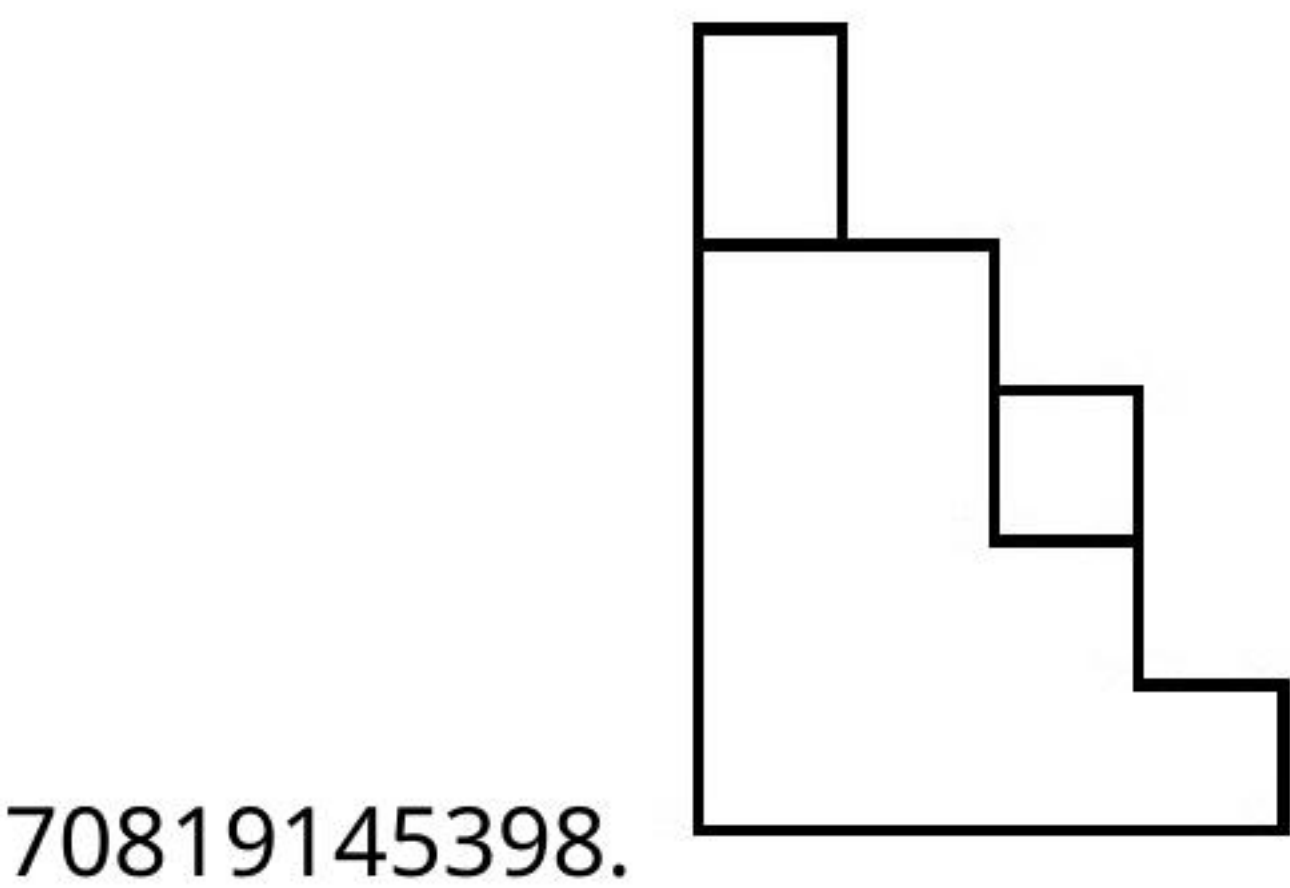
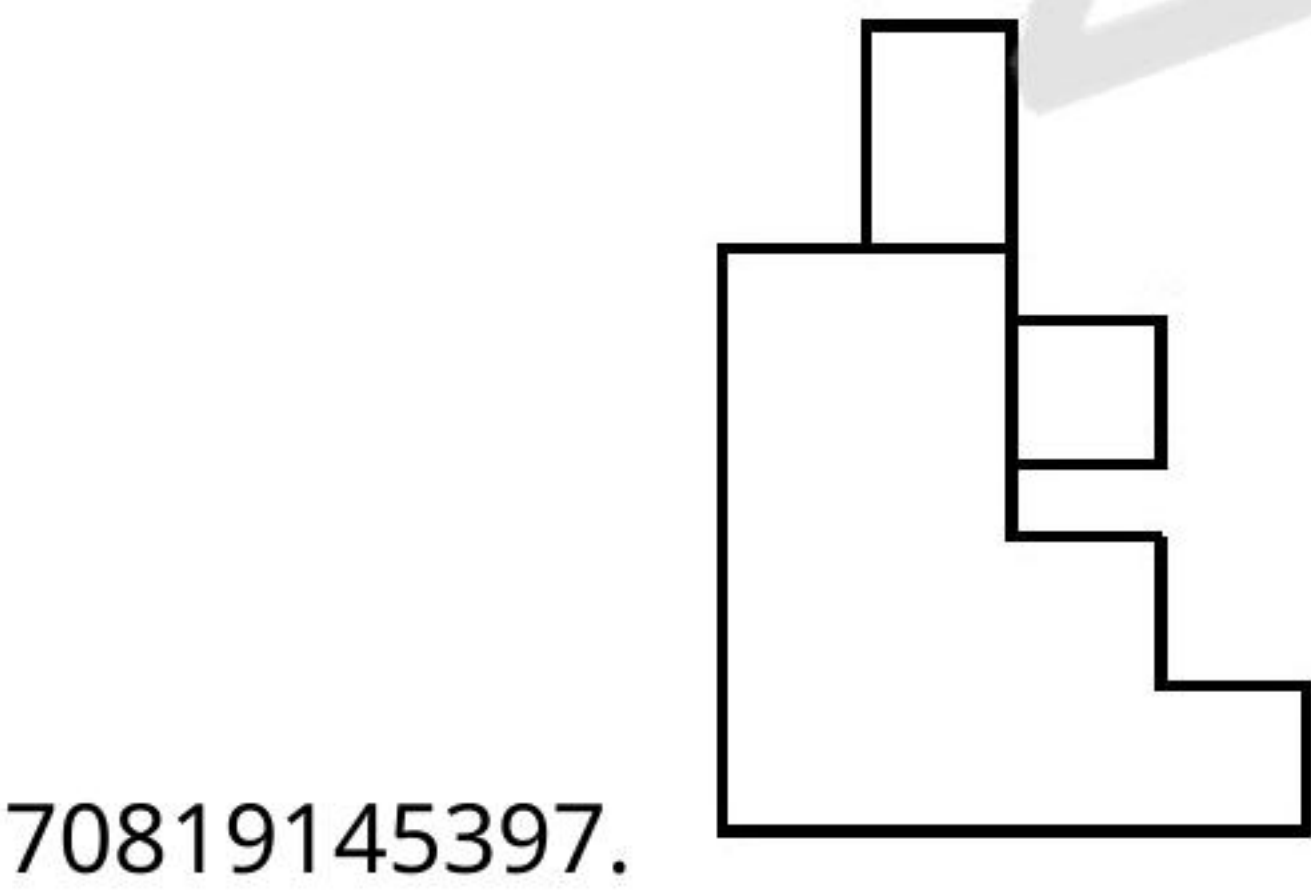


Question Number : 65 Question Id : 70819113706 Question Type : MCQ Option Shuffling : Yes
 Is Question Mandatory : No
 Correct Marks : 4 Wrong Marks : 1

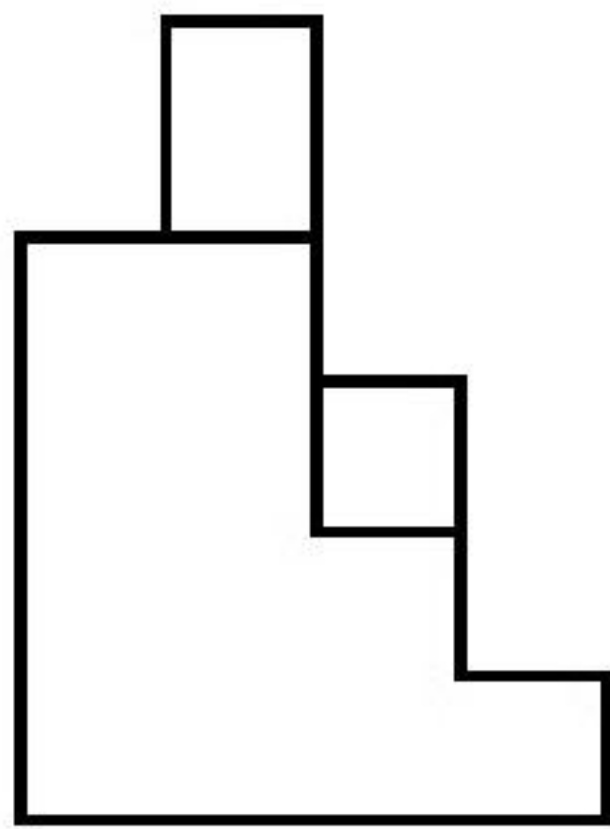
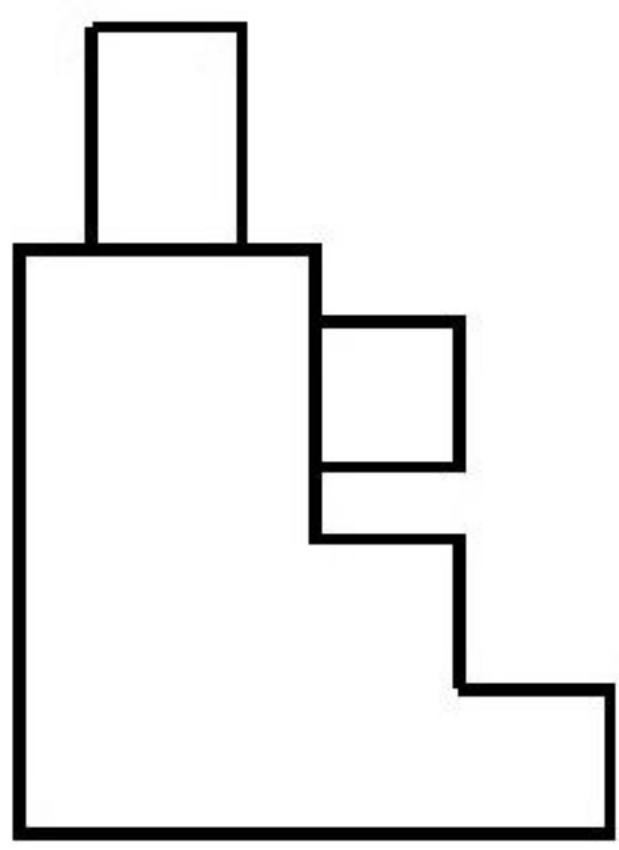
The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.



Options :



70819145399.



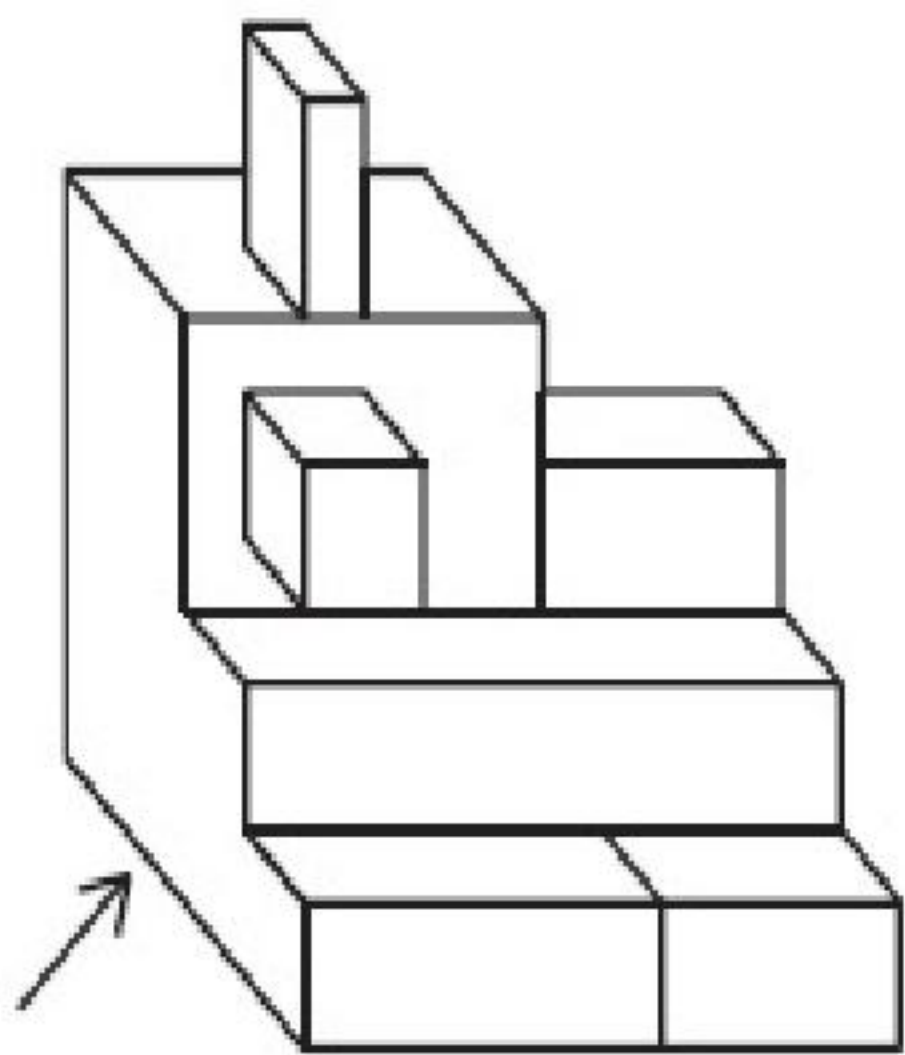
70819145400.

Question Number : 65 Question Id : 70819113706 Question Type : MCQ Option Shuffling : Yes

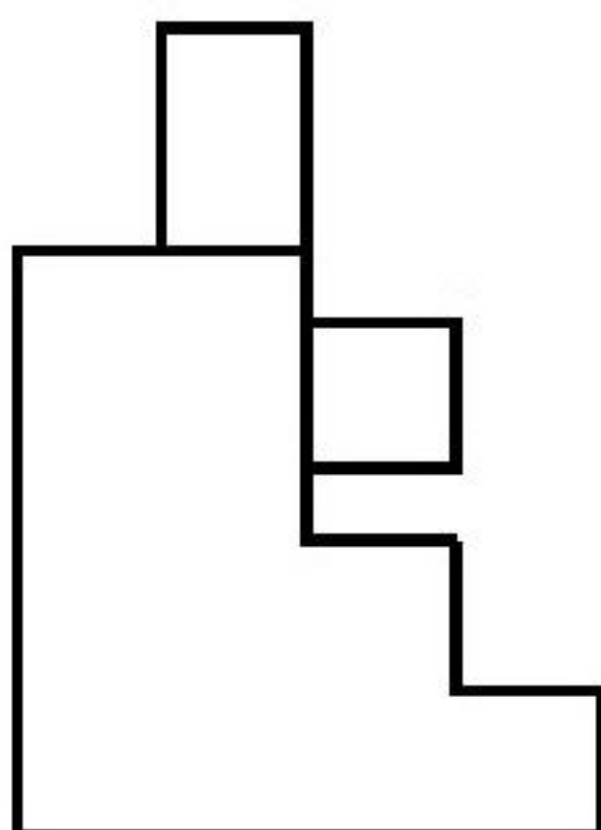
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

3D आकृति में एक वस्तु के एक दृश्य को दिखाया गया है। तीर की दिशा में देखते हुए, सही दृश्य को उत्तर आकृतियों में से पहचानिए।

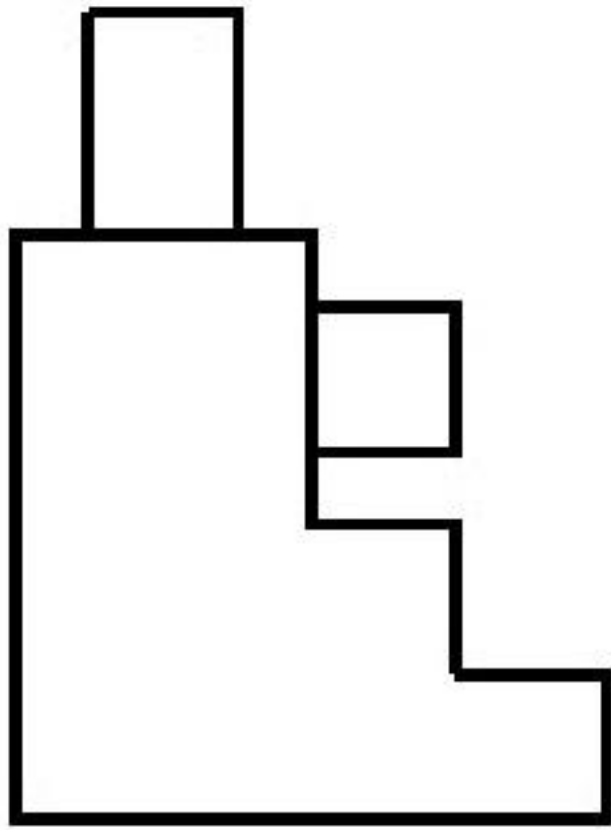
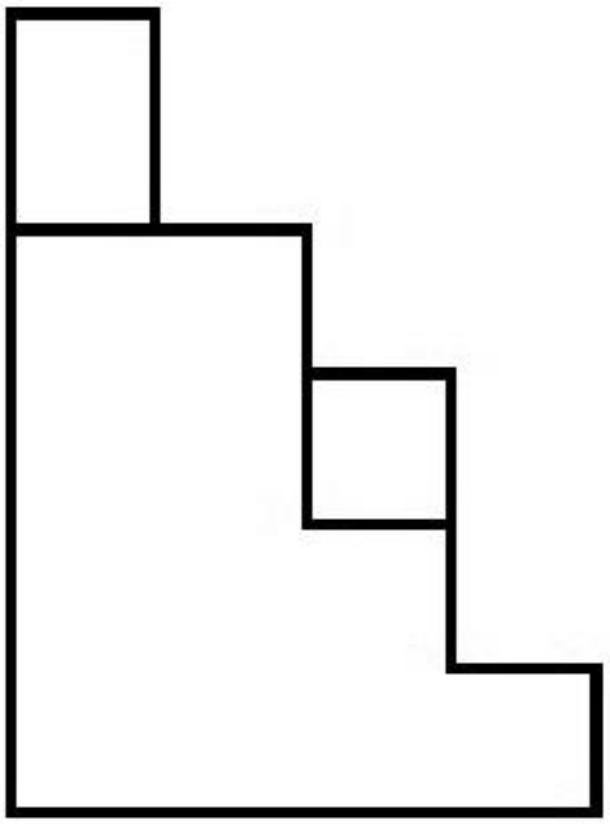


Options :

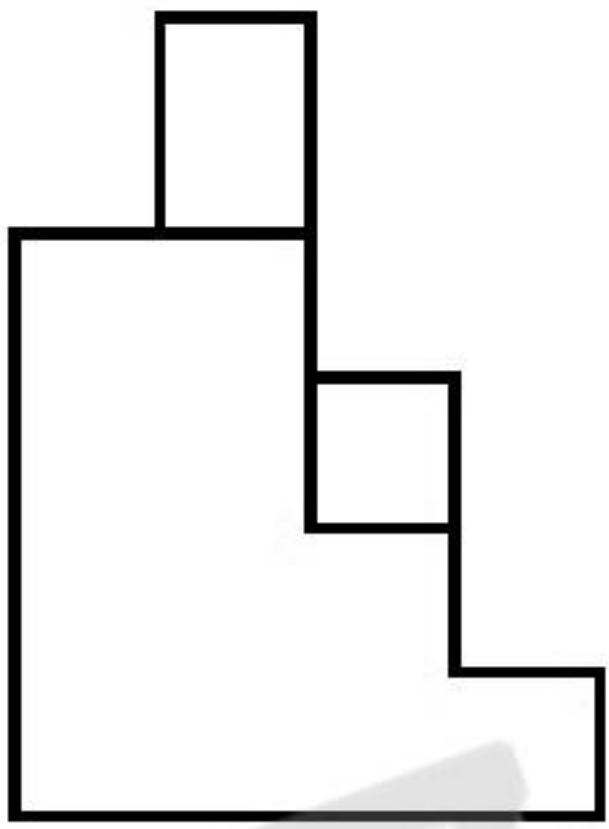


70819145397.

70819145398.



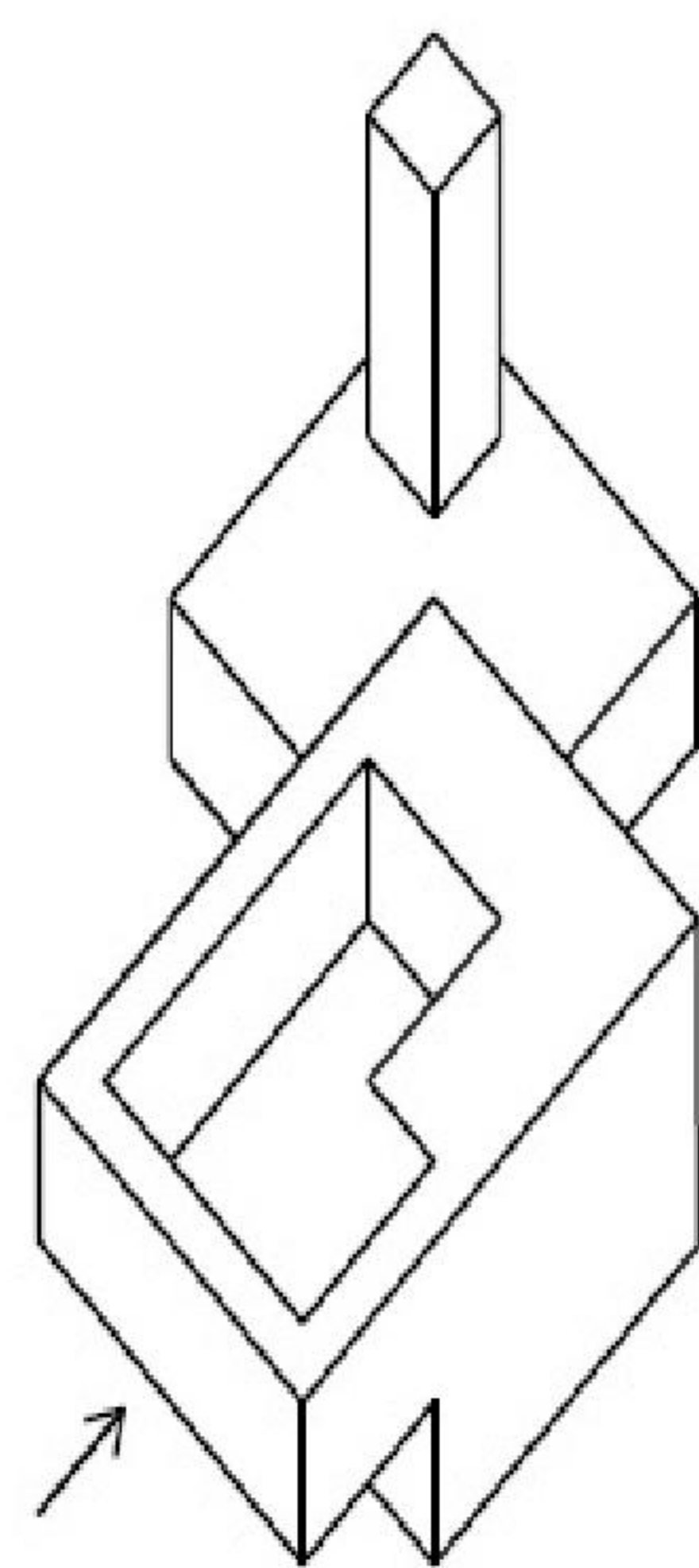
70819145399.



70819145400.

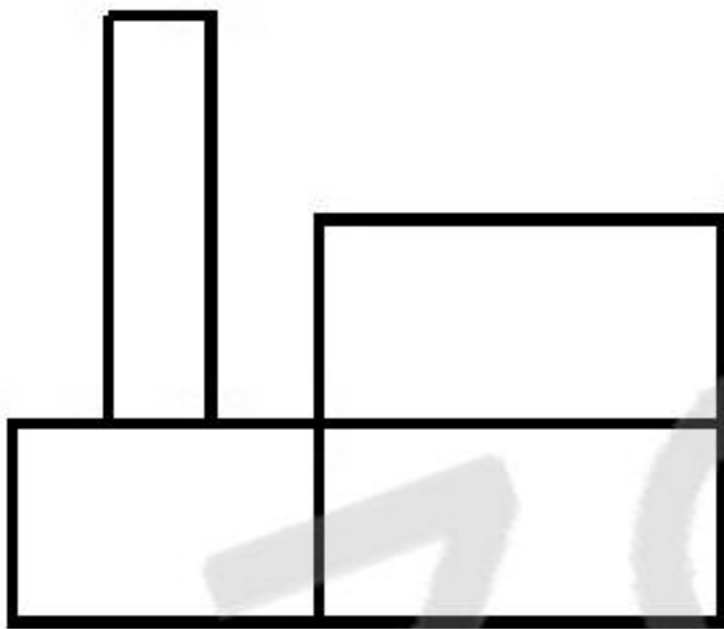
Question Number : 66 Question Id : 70819113707 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No
Correct Marks : 4 Wrong Marks : 1

The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.

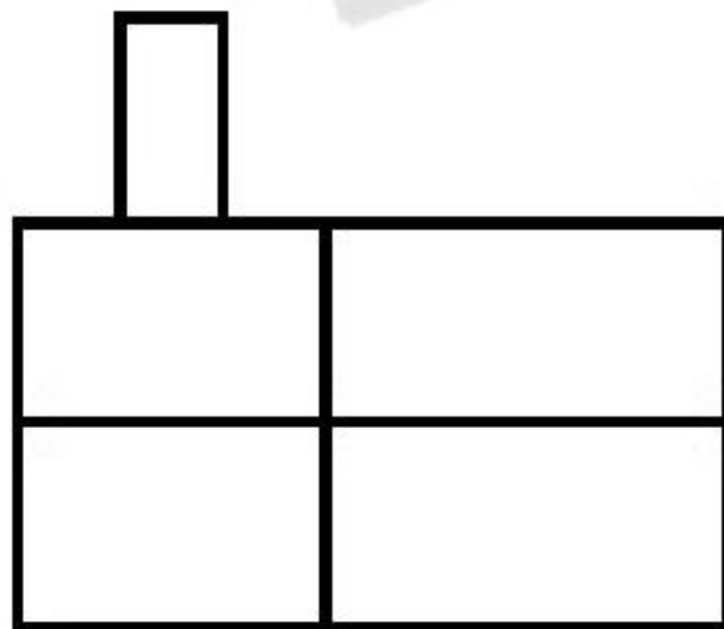


Options :

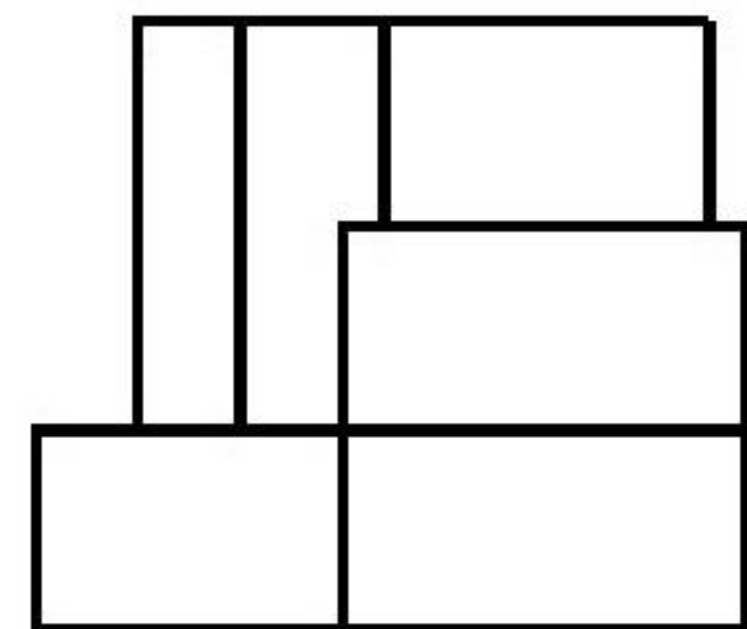
70819145401.



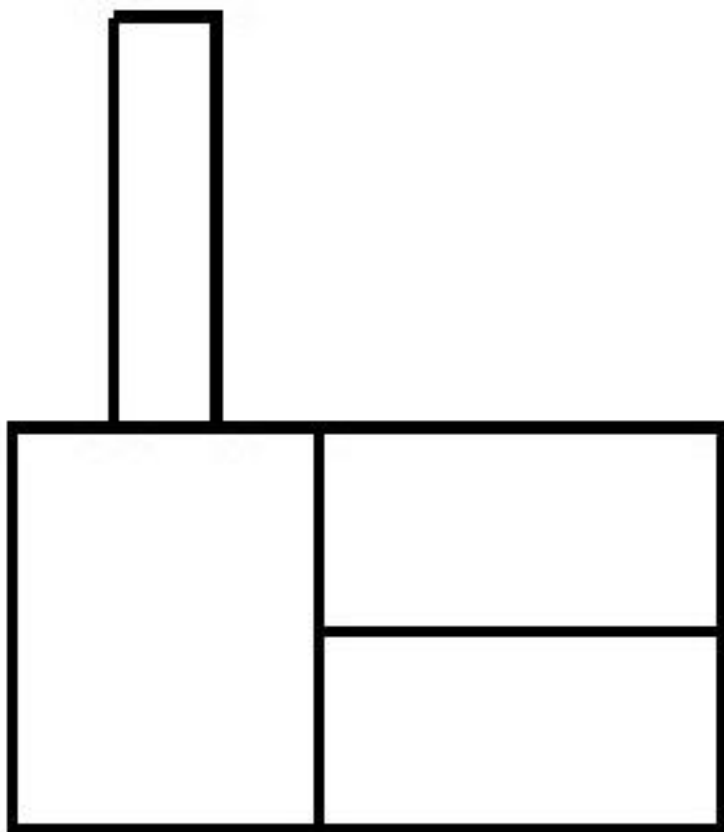
70819145402.



70819145403.



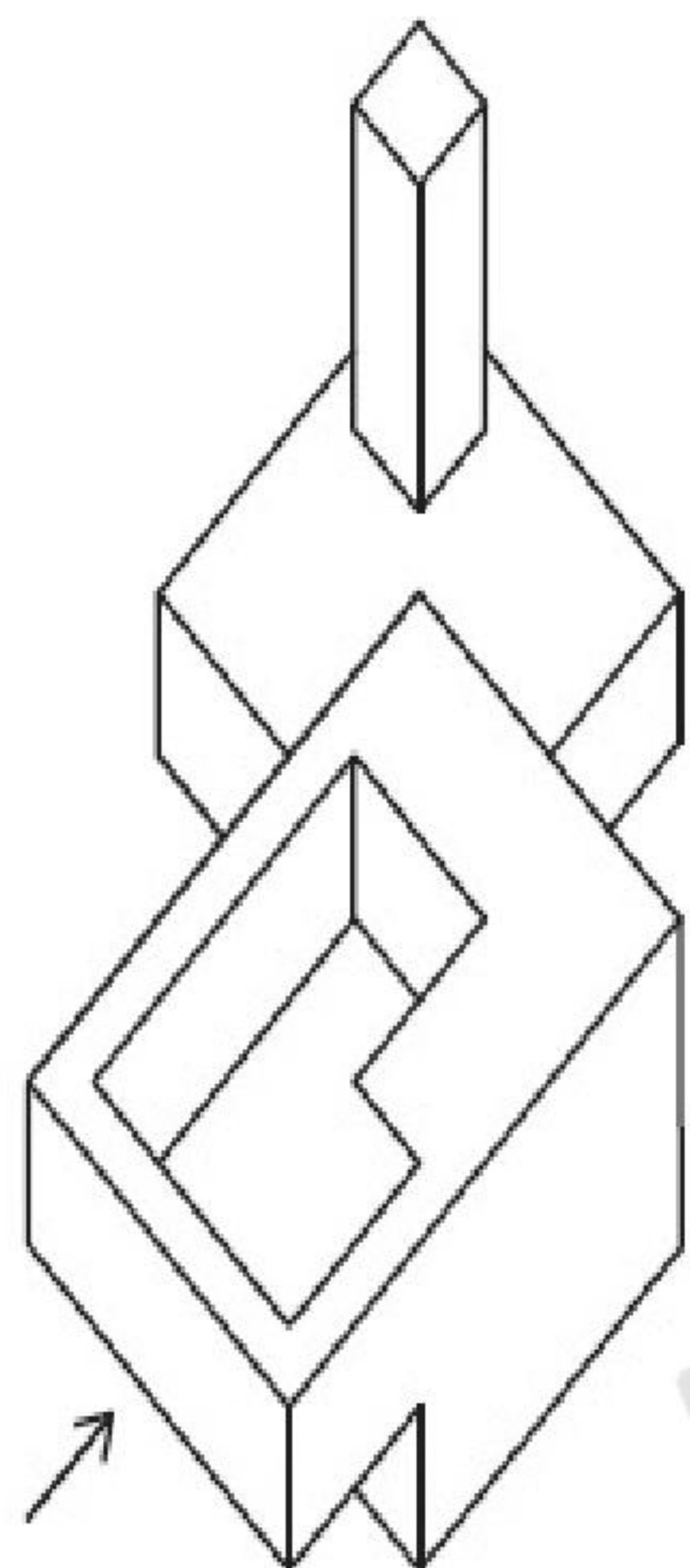
70819145404.



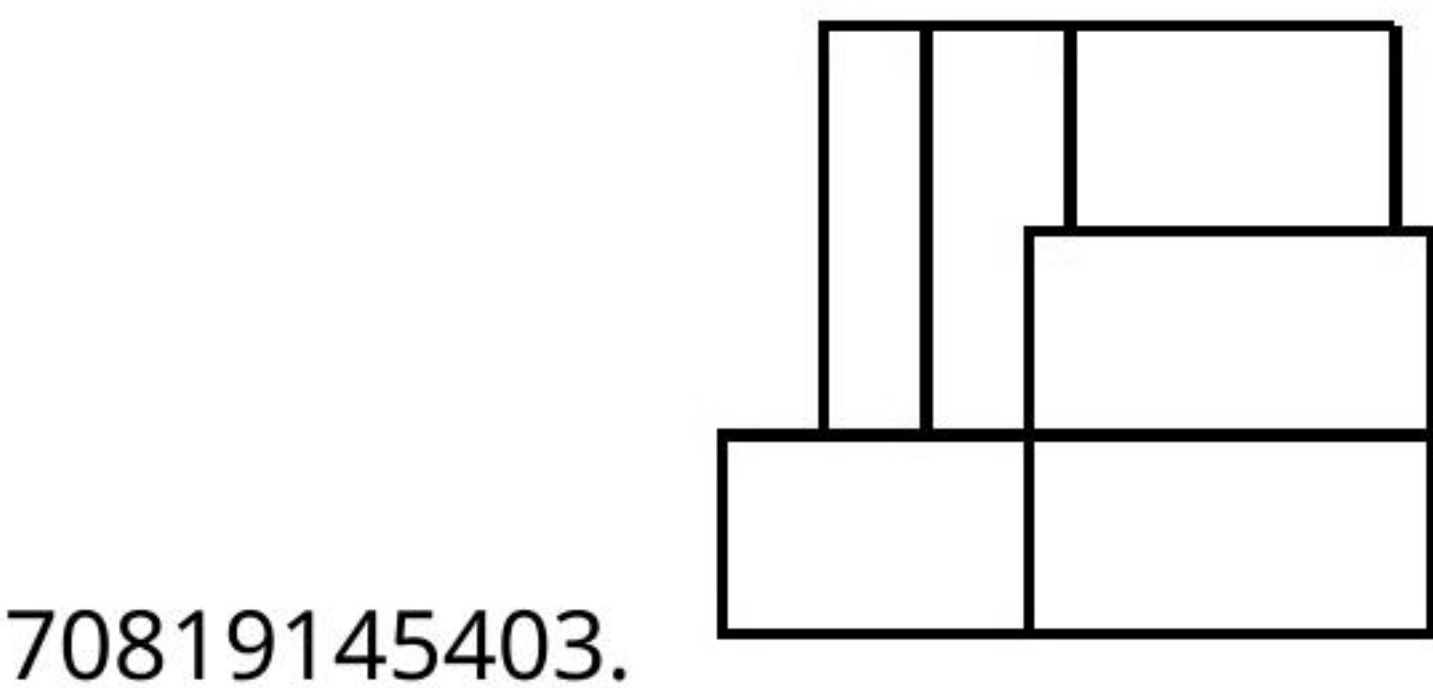
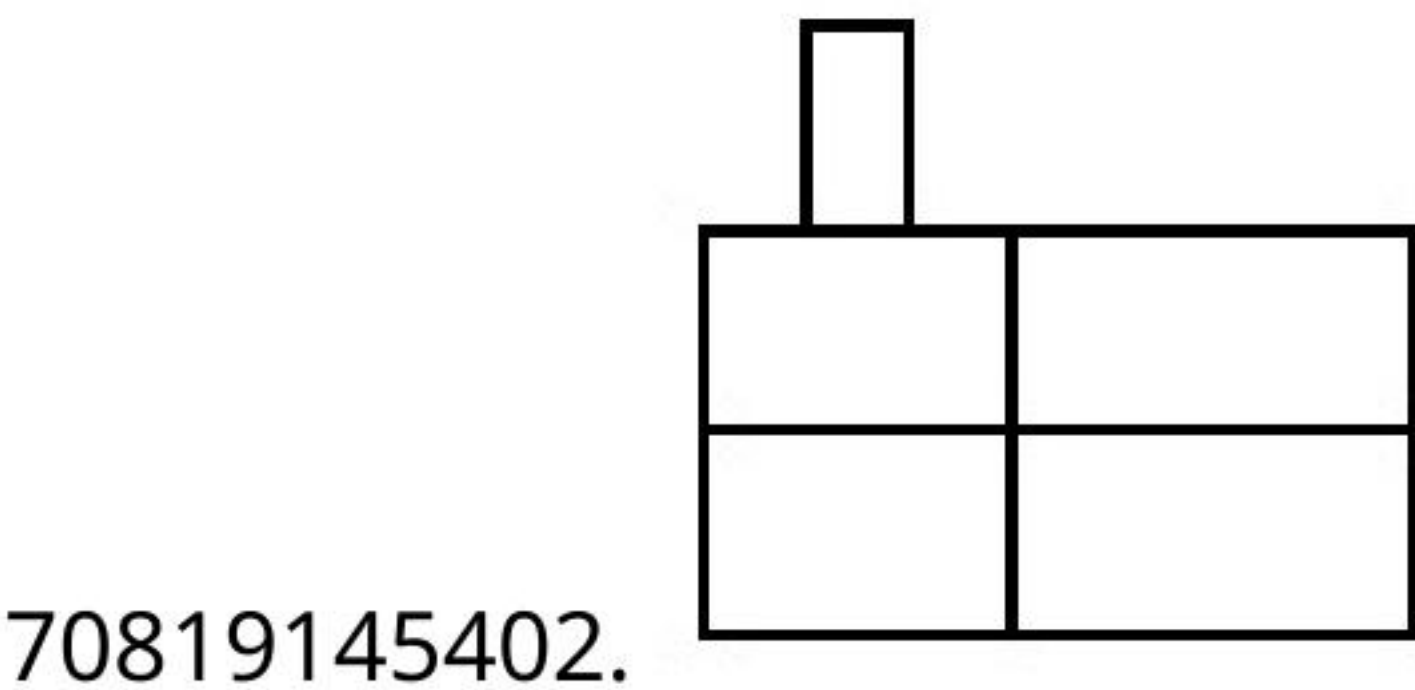
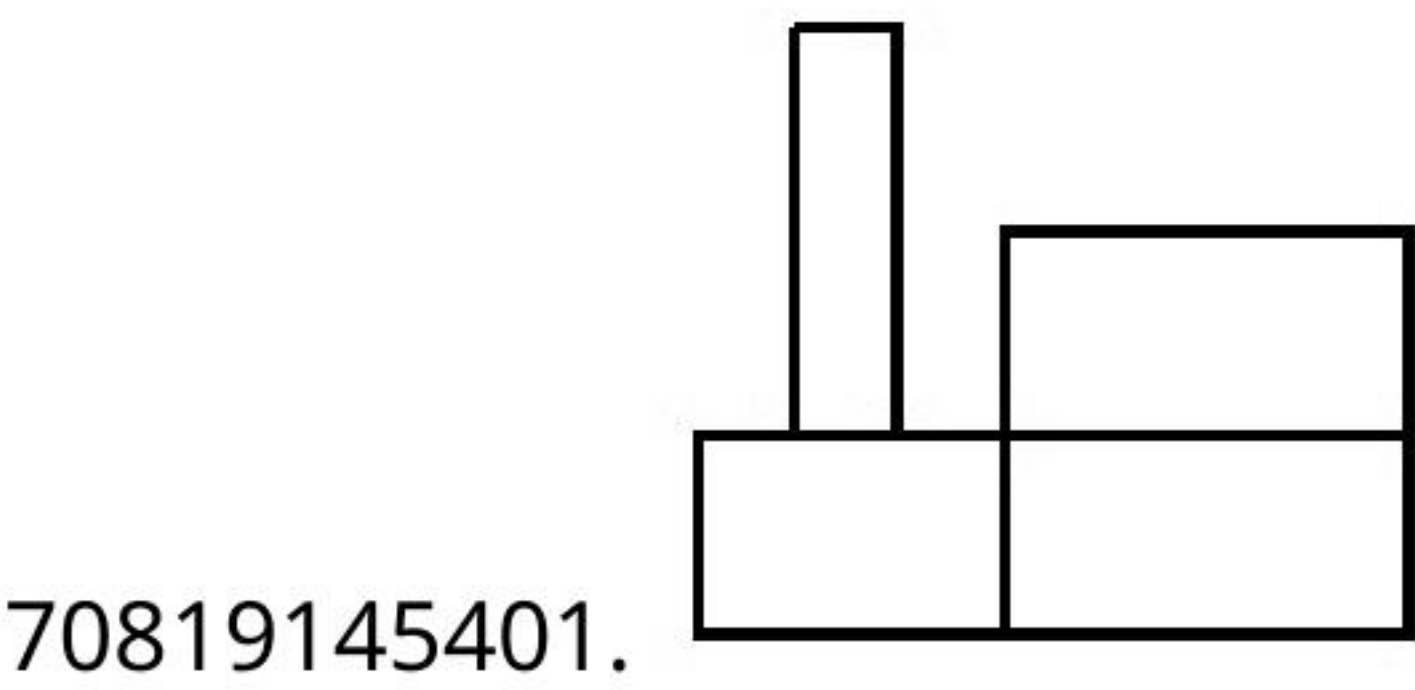
Question Number : 66 Question Id : 70819113707 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

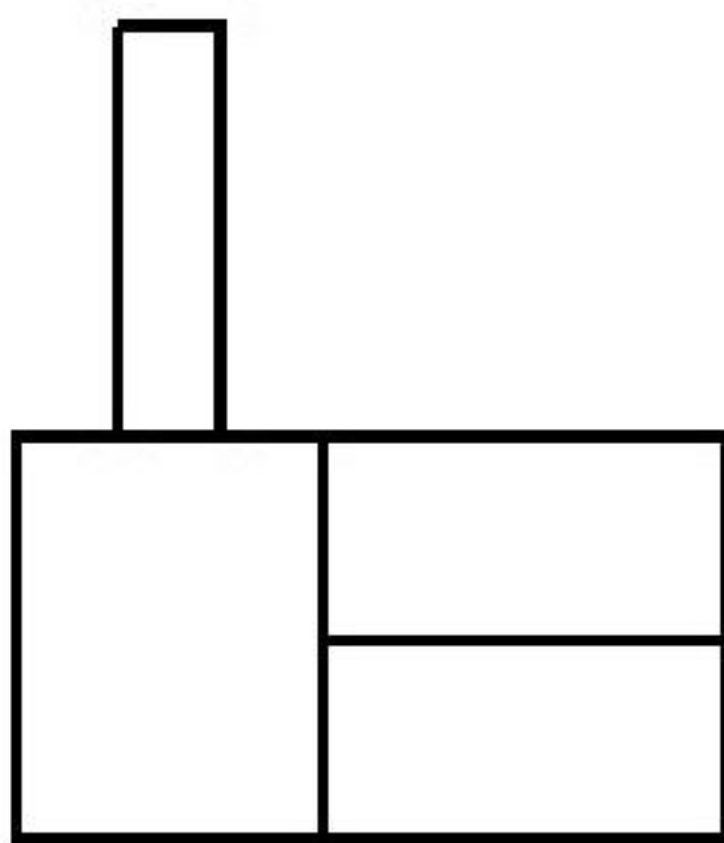
3D आकृति में एक वस्तु के एक दृश्य को दिखाया गया है। तीर की दिशा में देखते हुए, सही दृश्य को उत्तर आकृतियों में से पहचानिए।



Options :



70819145404.

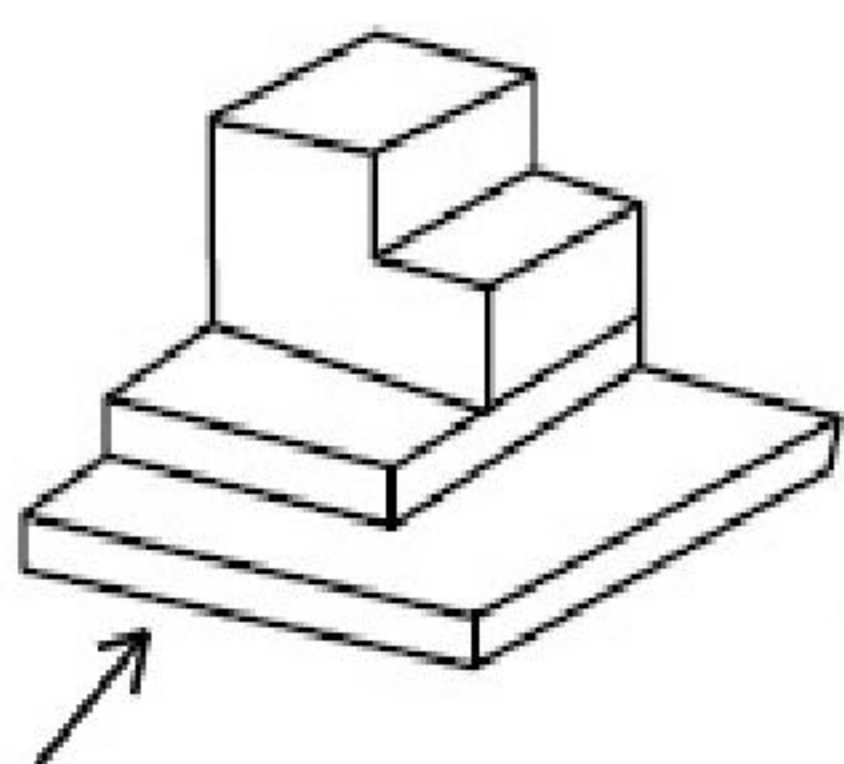


Question Number : 67 Question Id : 70819113708 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

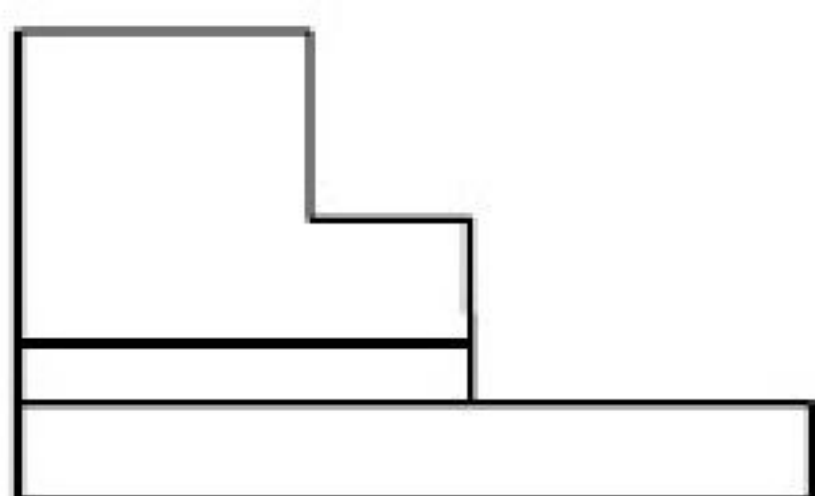
Correct Marks : 4 Wrong Marks : 1

The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.

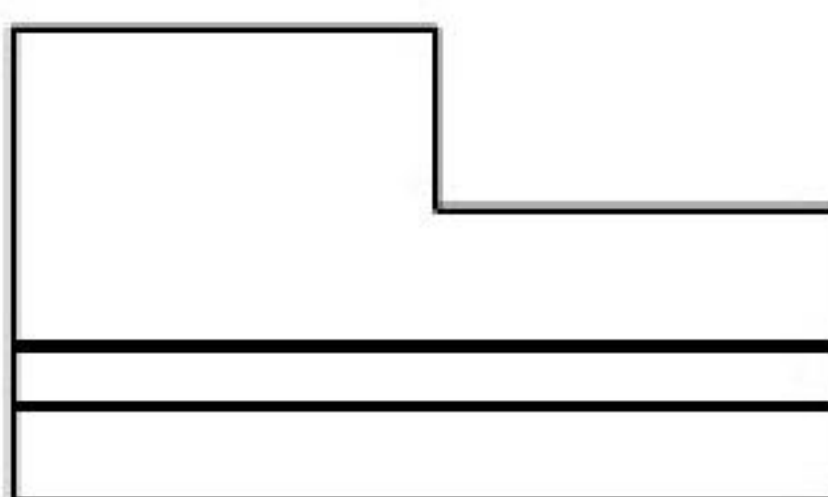


Options :

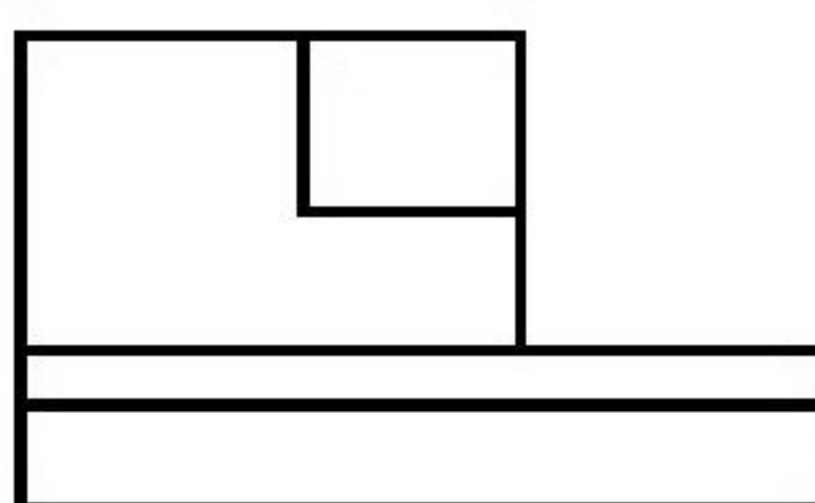
70819145405.



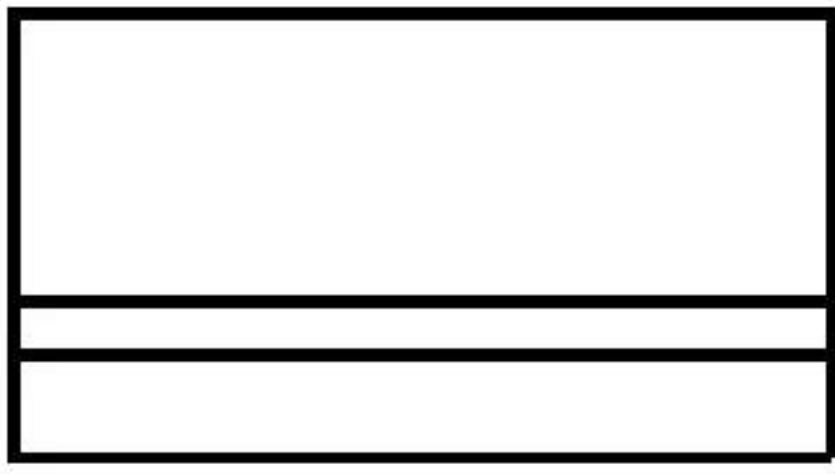
70819145406.



70819145407.



70819145408.

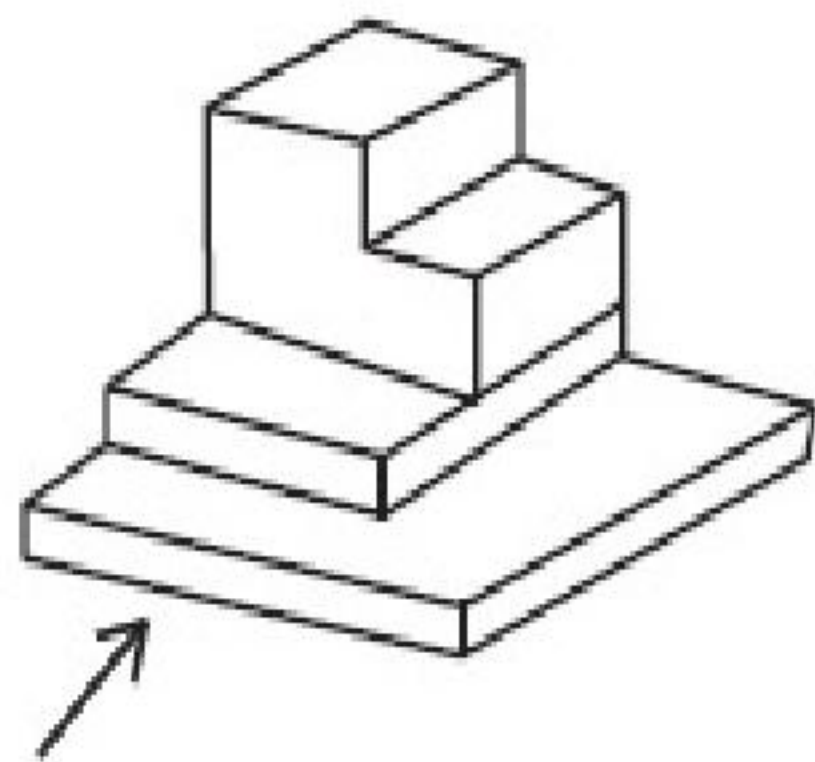


Question Number : 67 Question Id : 70819113708 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

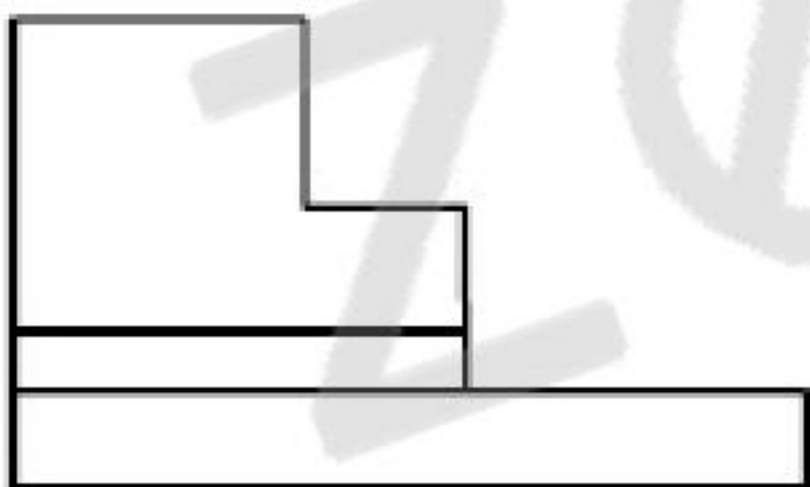
Correct Marks : 4 Wrong Marks : 1

3D आकृति में एक वस्तु के एक दृश्य को दिखाया गया है। तीर की दिशा में देखते हुए, सही दृश्य को उत्तर आकृतियों में से पहचानिए।

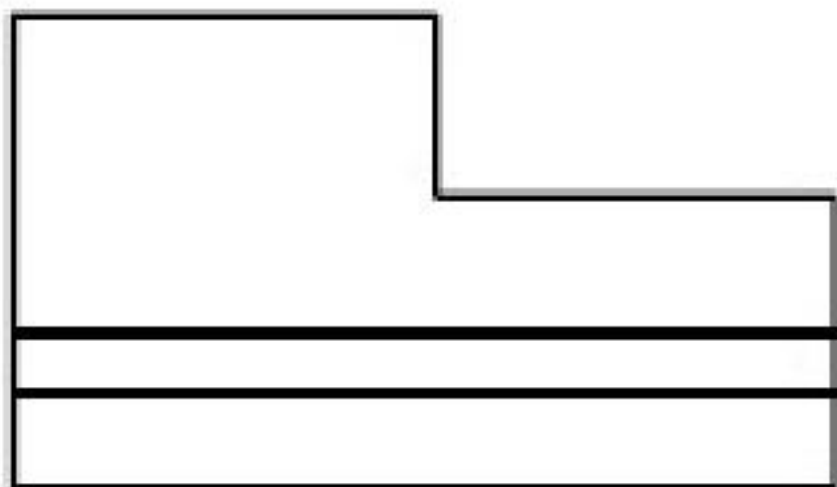


Options :

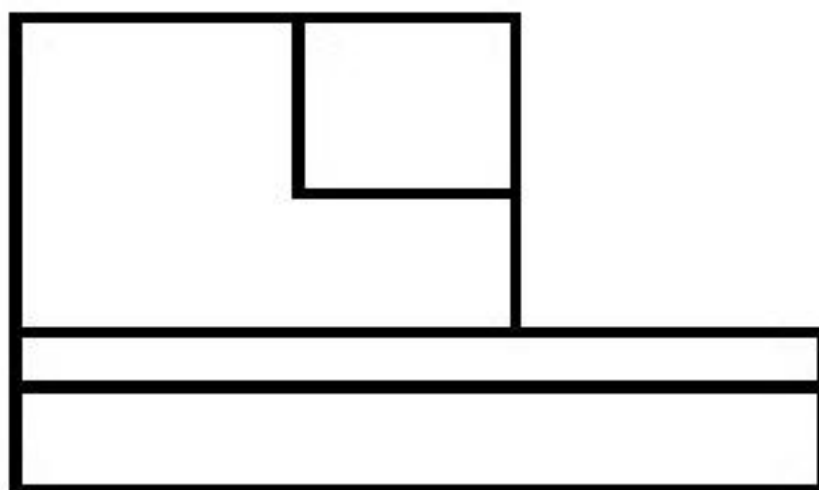
70819145405.



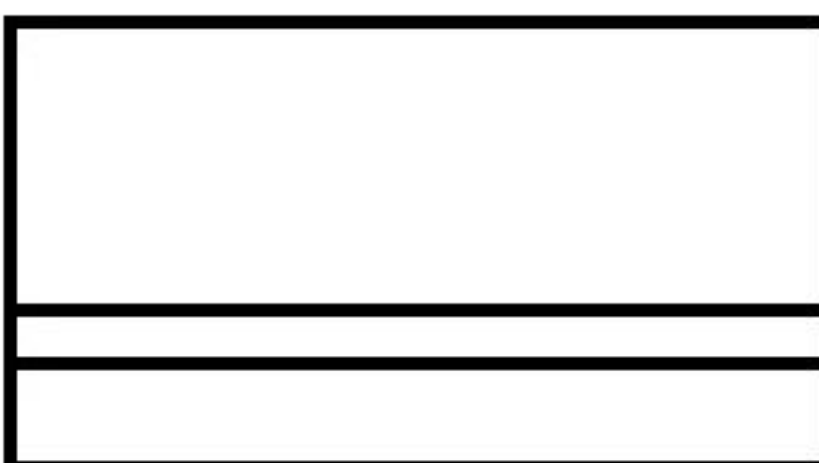
70819145406.



70819145407.



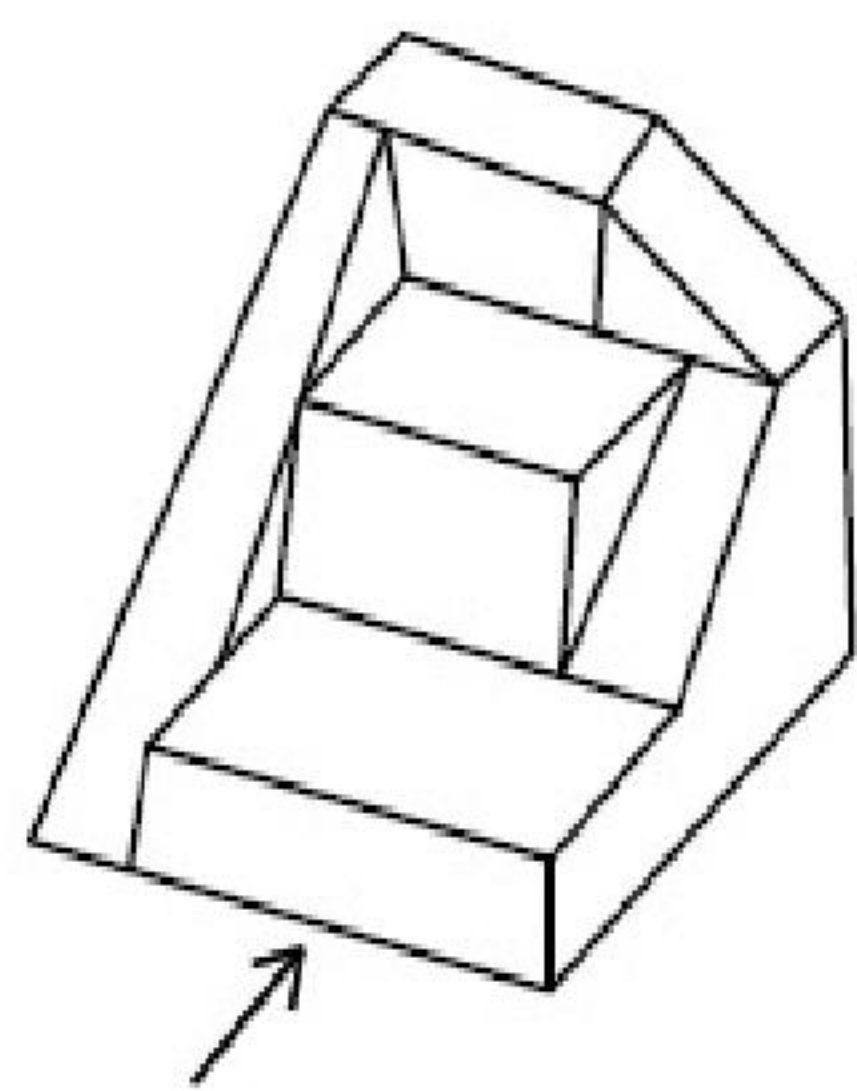
70819145408.



Question Number : 68 Question Id : 70819113709 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

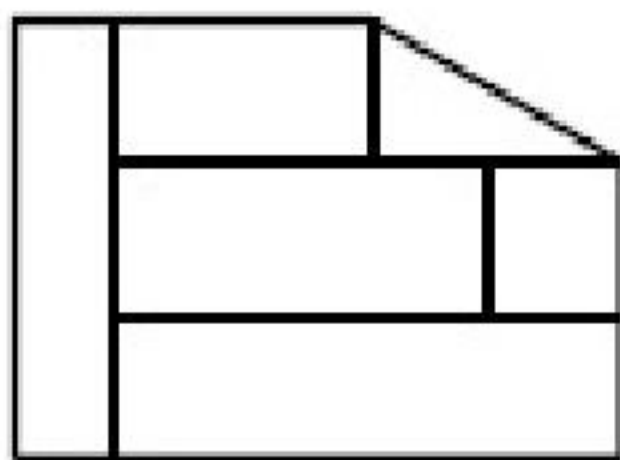
Correct Marks : 4 Wrong Marks : 1

The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.

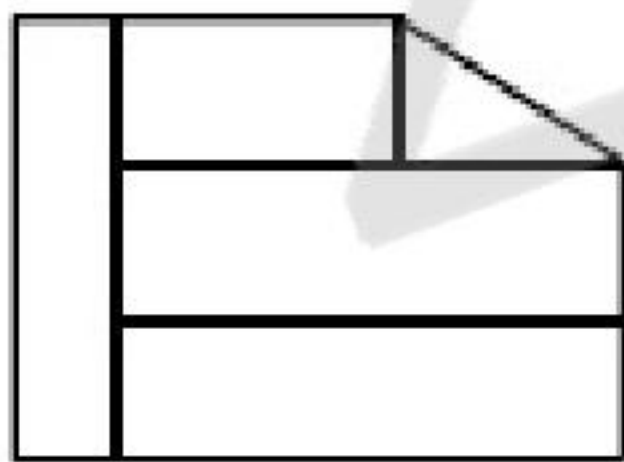


Options :

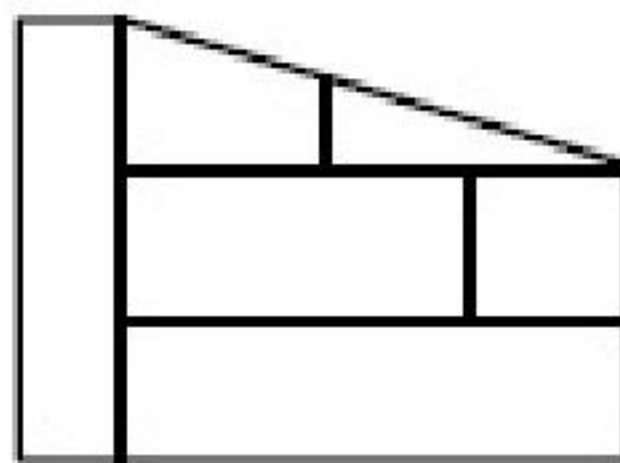
70819145409.



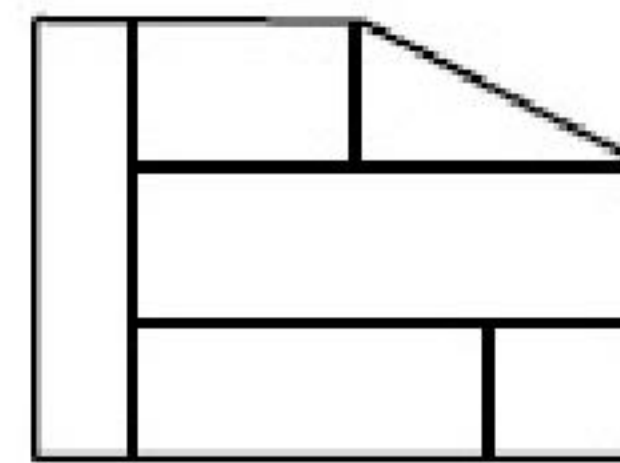
70819145410.



70819145411.



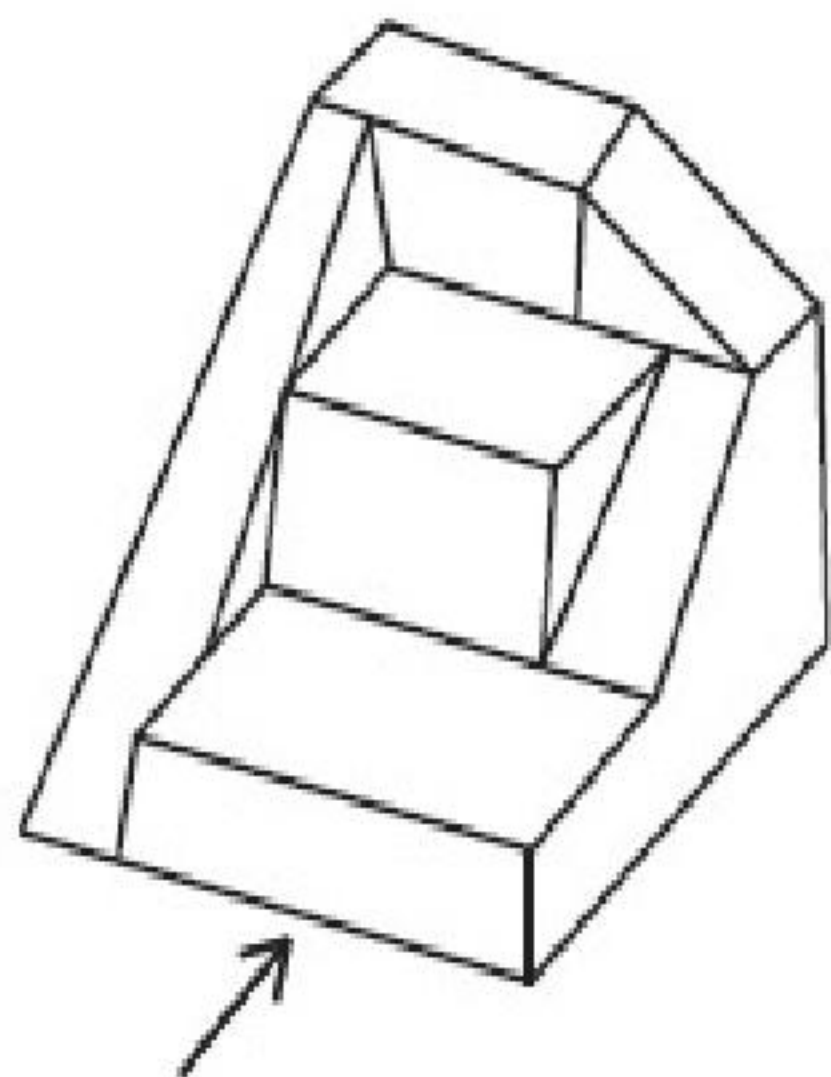
70819145412.



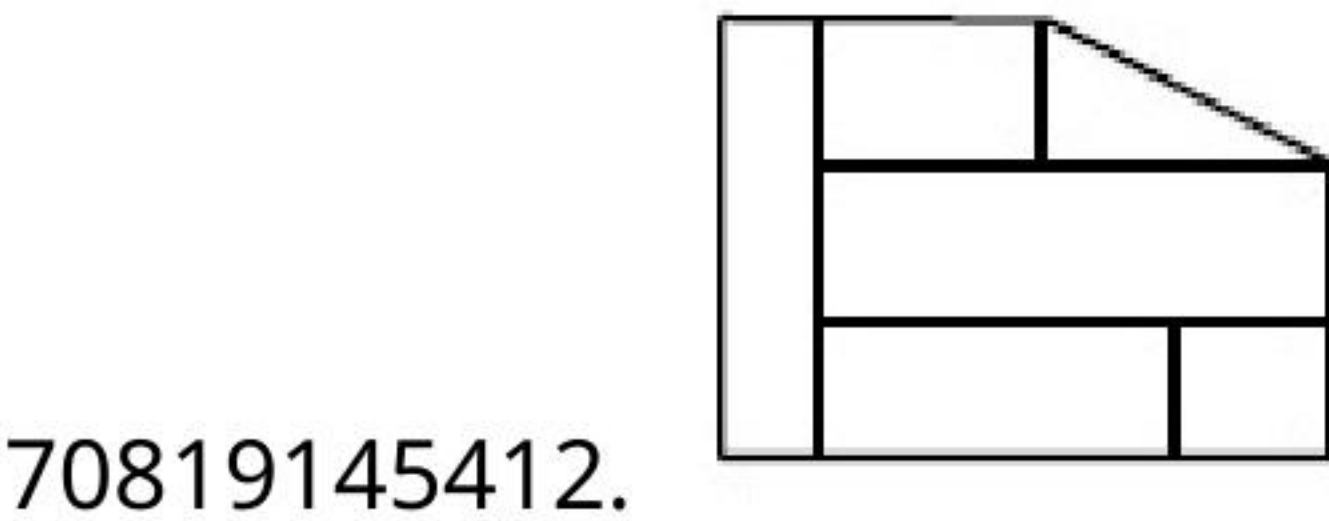
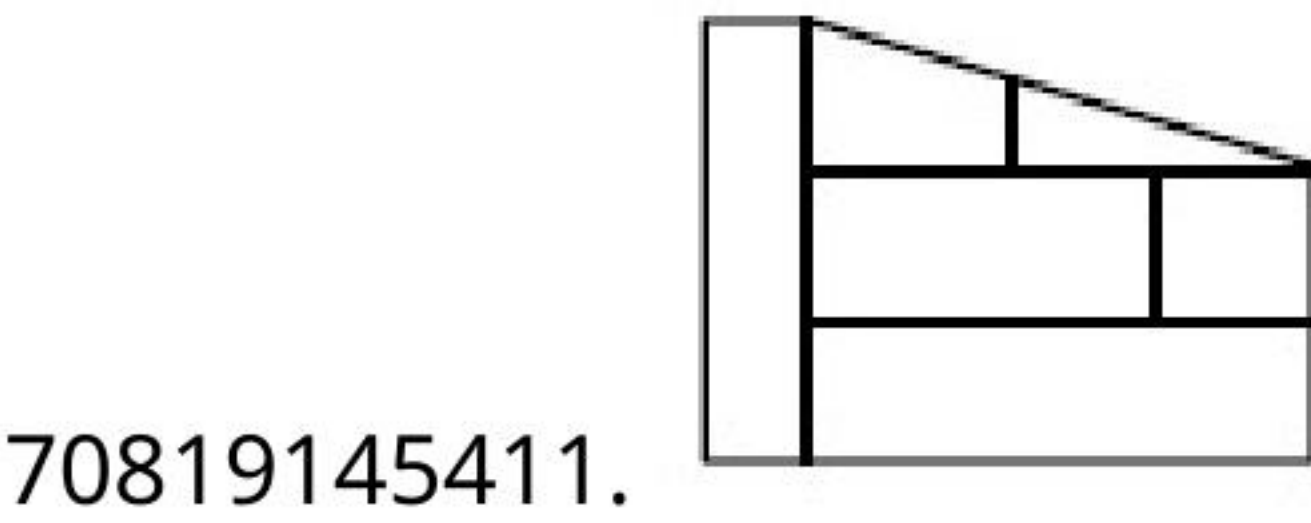
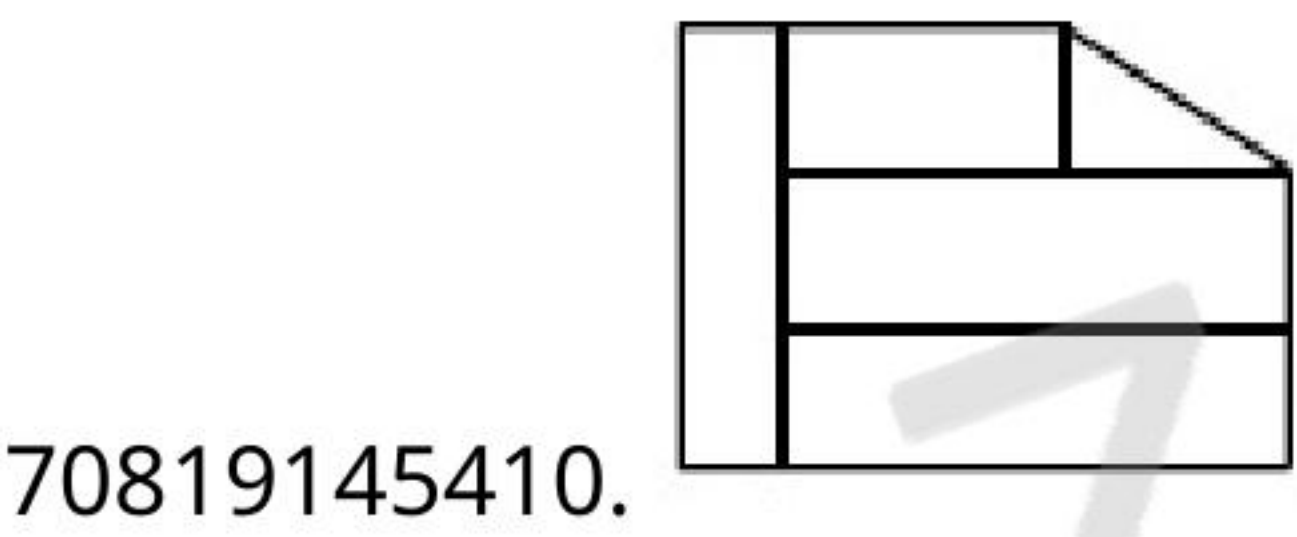
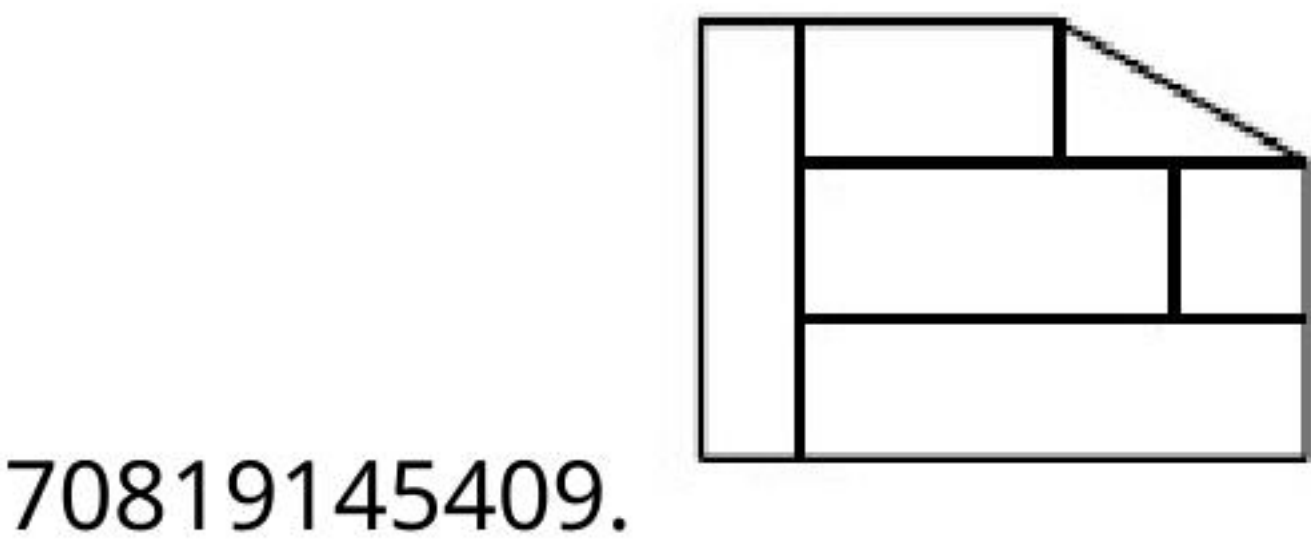
Question Number : 68 Question Id : 70819113709 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

3D आकृति में एक वस्तु के एक दृश्य को दिखाया गया है। तीर की दिशा में देखते हुए, सही दृश्य को उत्तर आकृतियों में से पहचानिए।



Options :

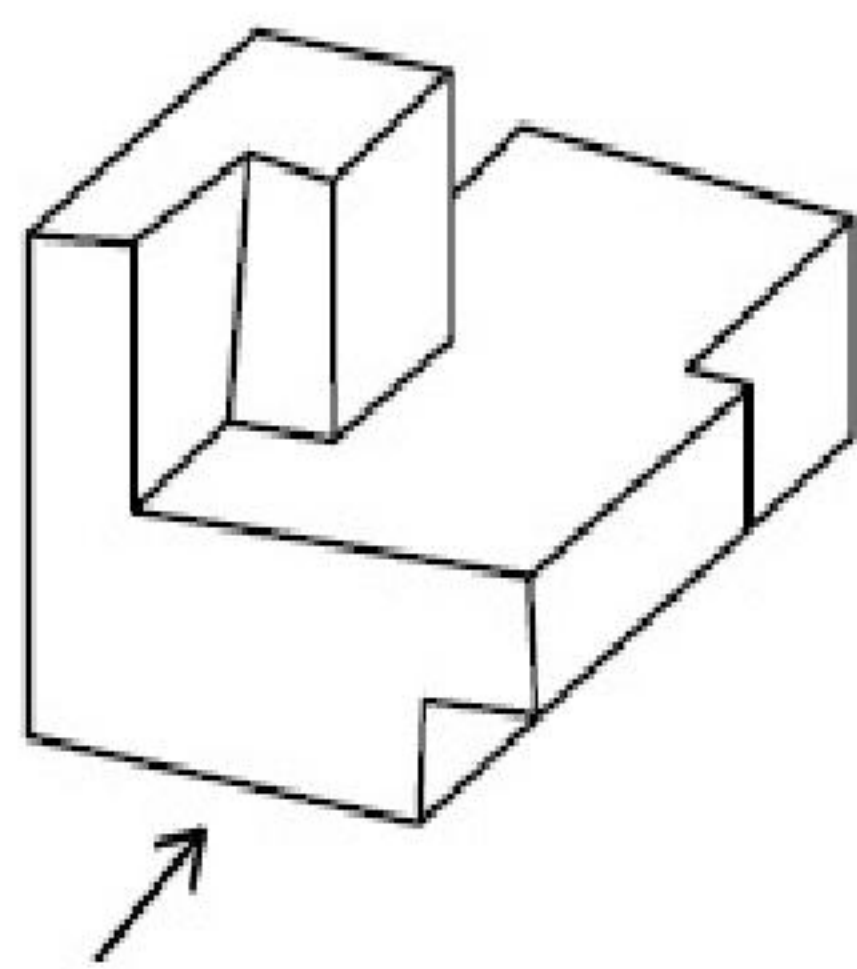


Question Number : 69 Question Id : 70819113710 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

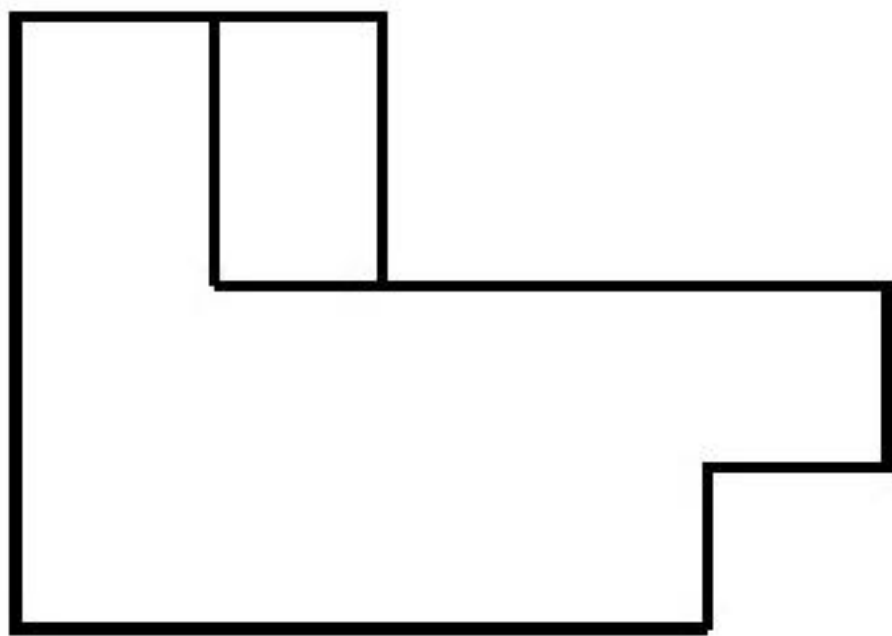
Correct Marks : 4 Wrong Marks : 1

The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.

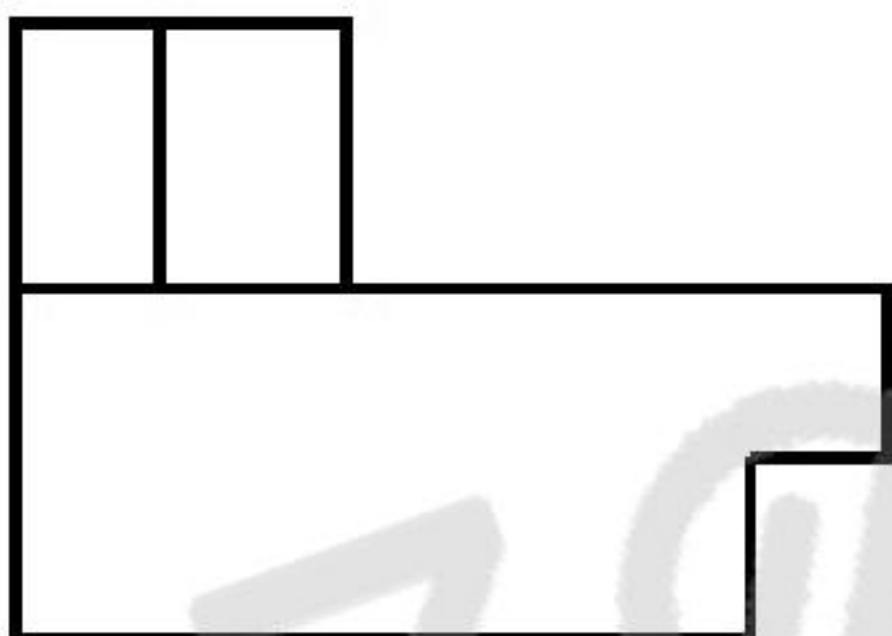


Options :

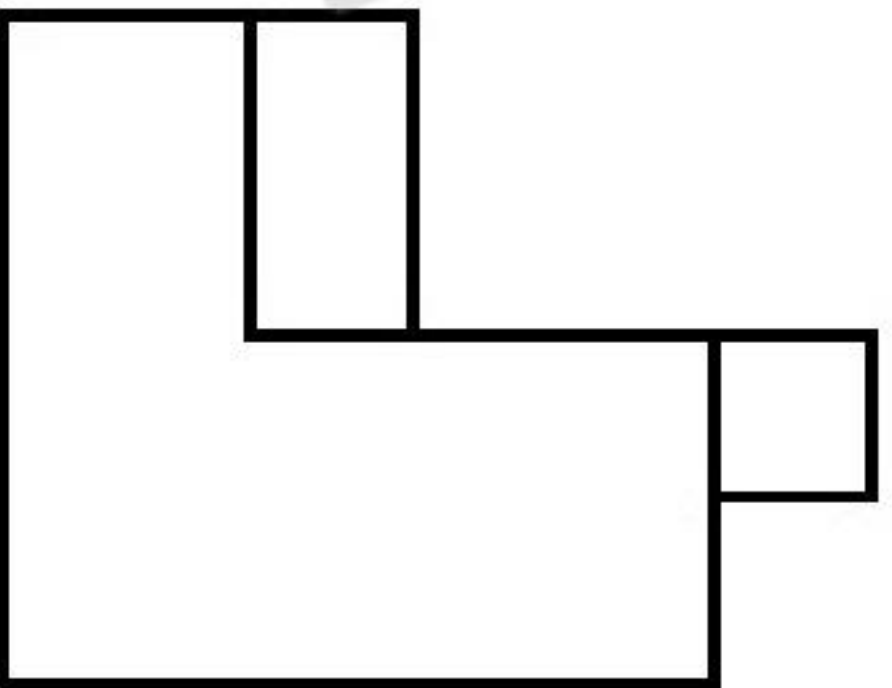
70819145413.



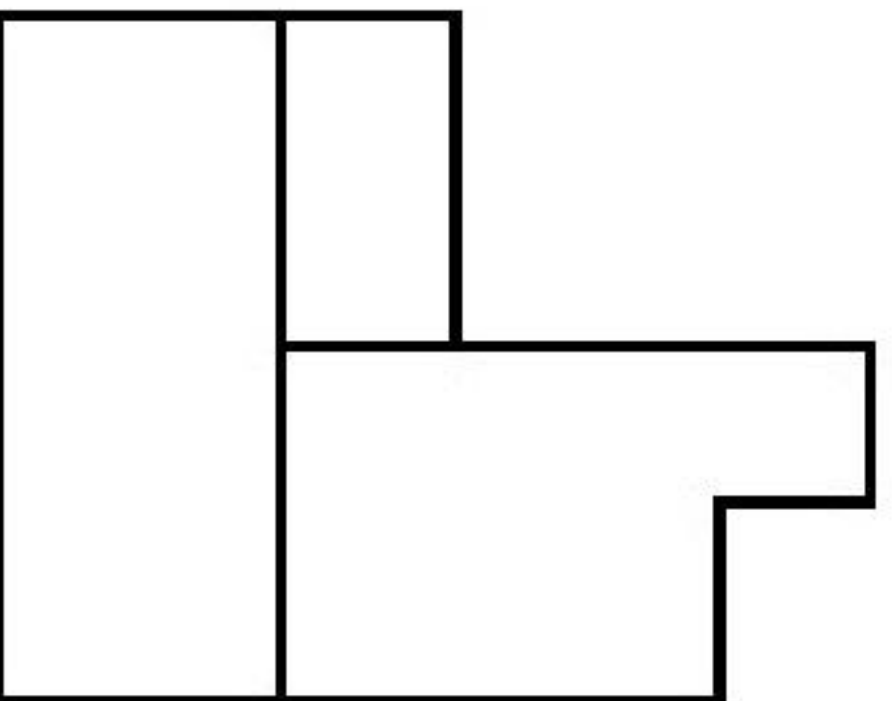
70819145414.



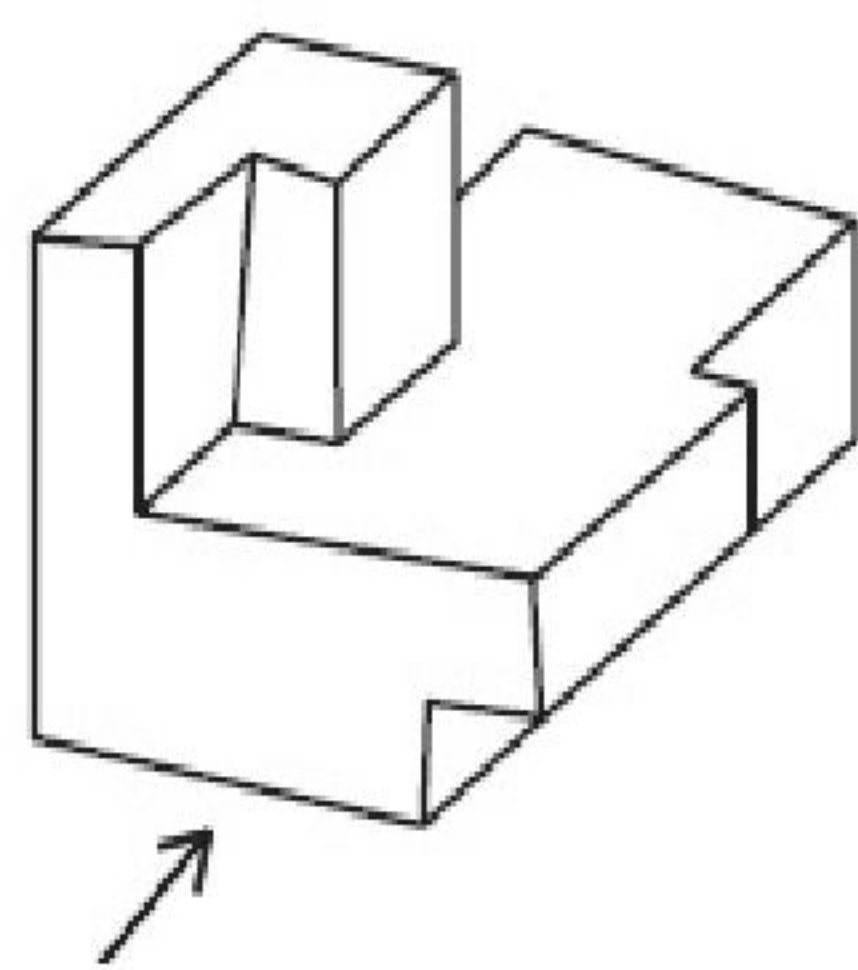
70819145415.



70819145416.

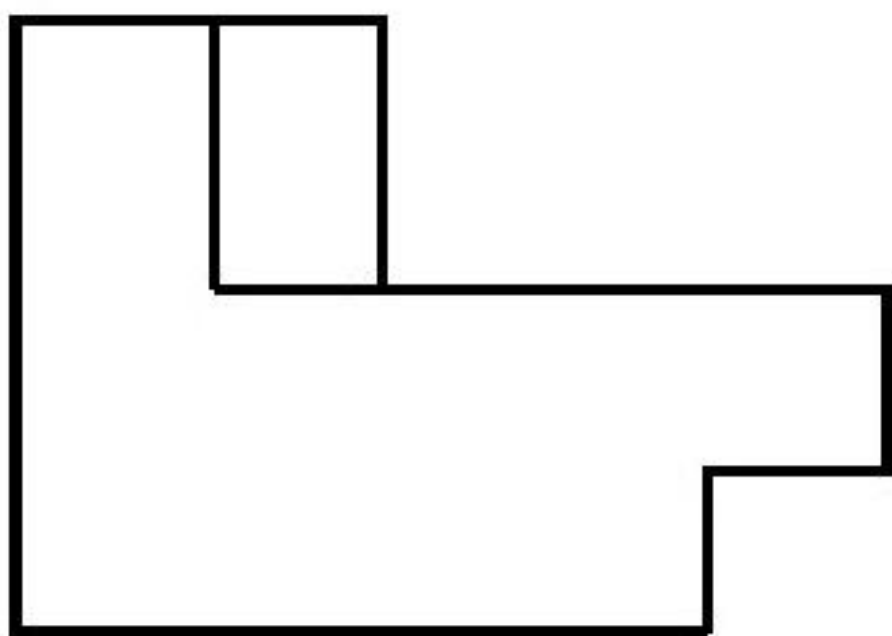


3D आकृति में एक वस्तु के एक दृश्य को दिखाया गया है। तीर की दिशा में देखते हुए, सही दृश्य को उत्तर आकृतियों में से पहचानिए।

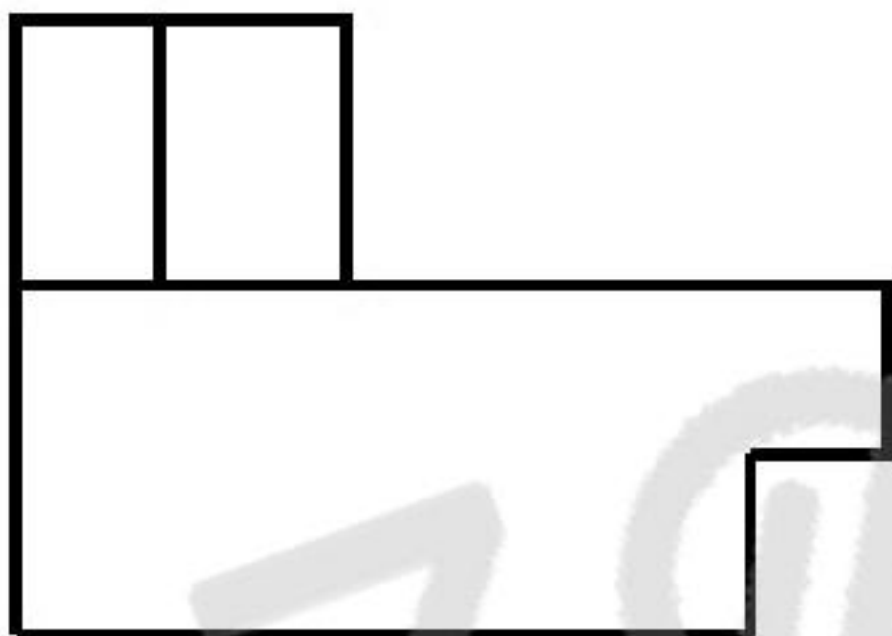


Options :

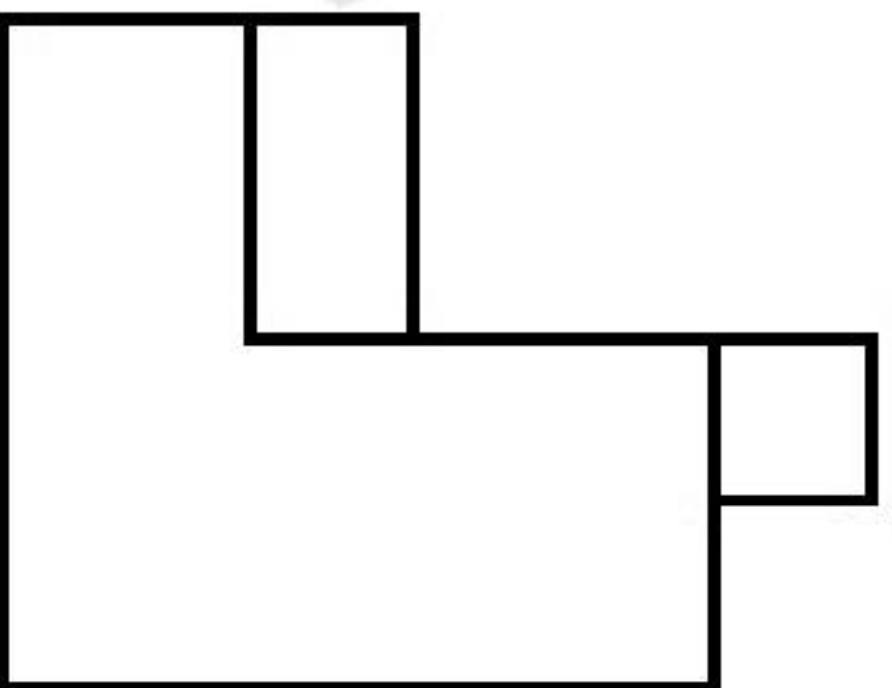
70819145413.



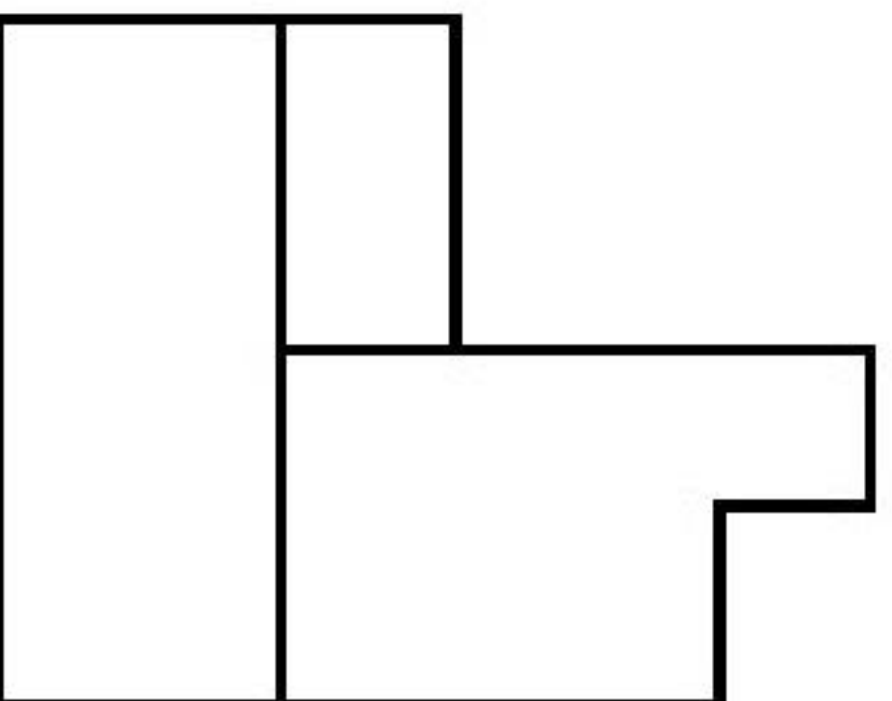
70819145414.



70819145415.

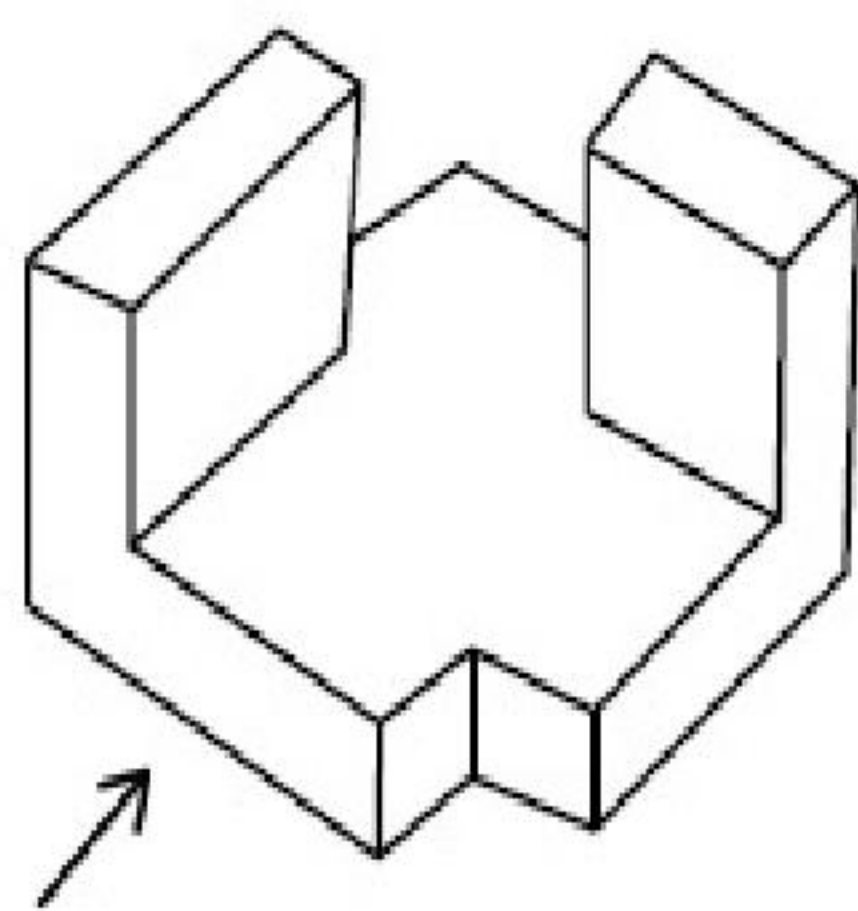


70819145416.

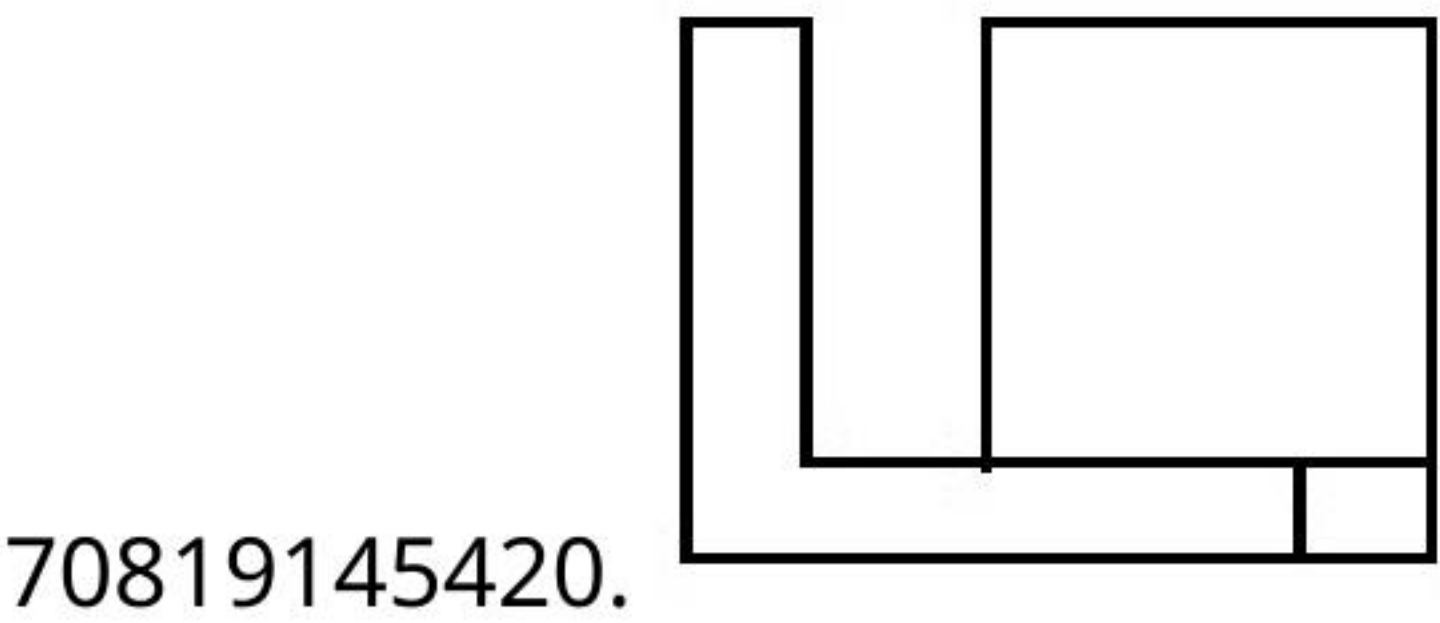
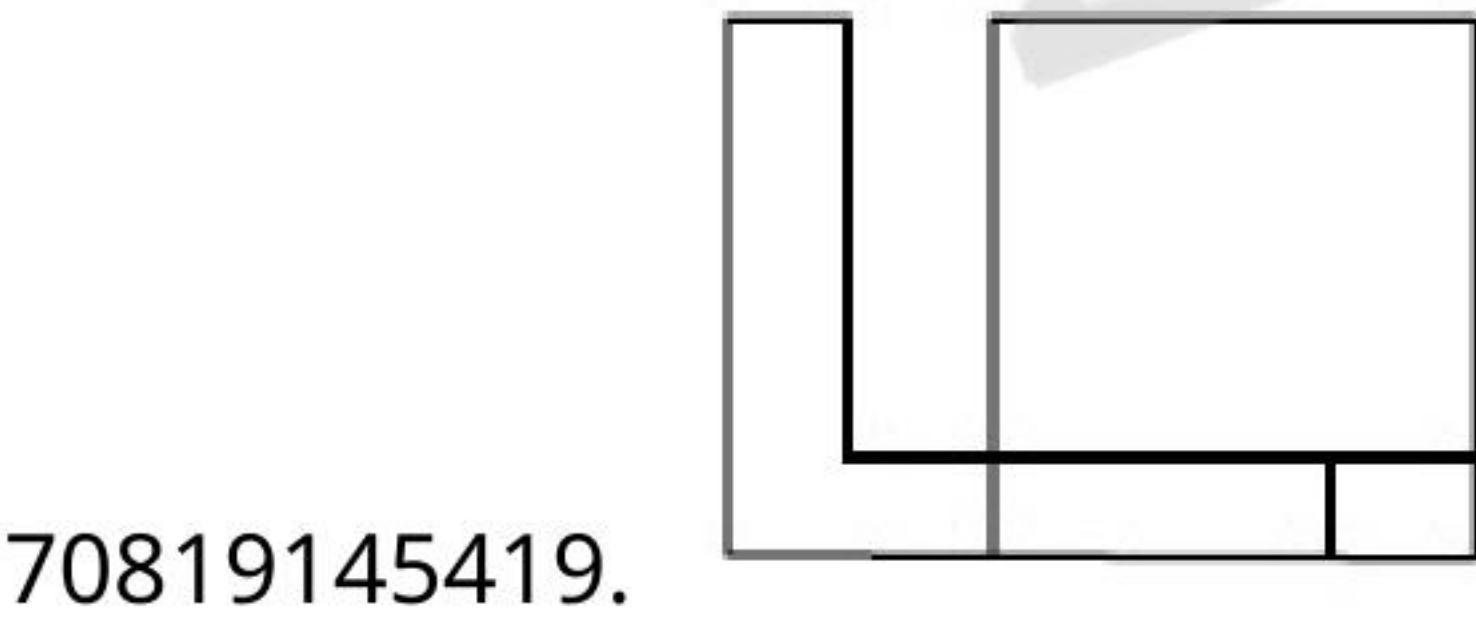
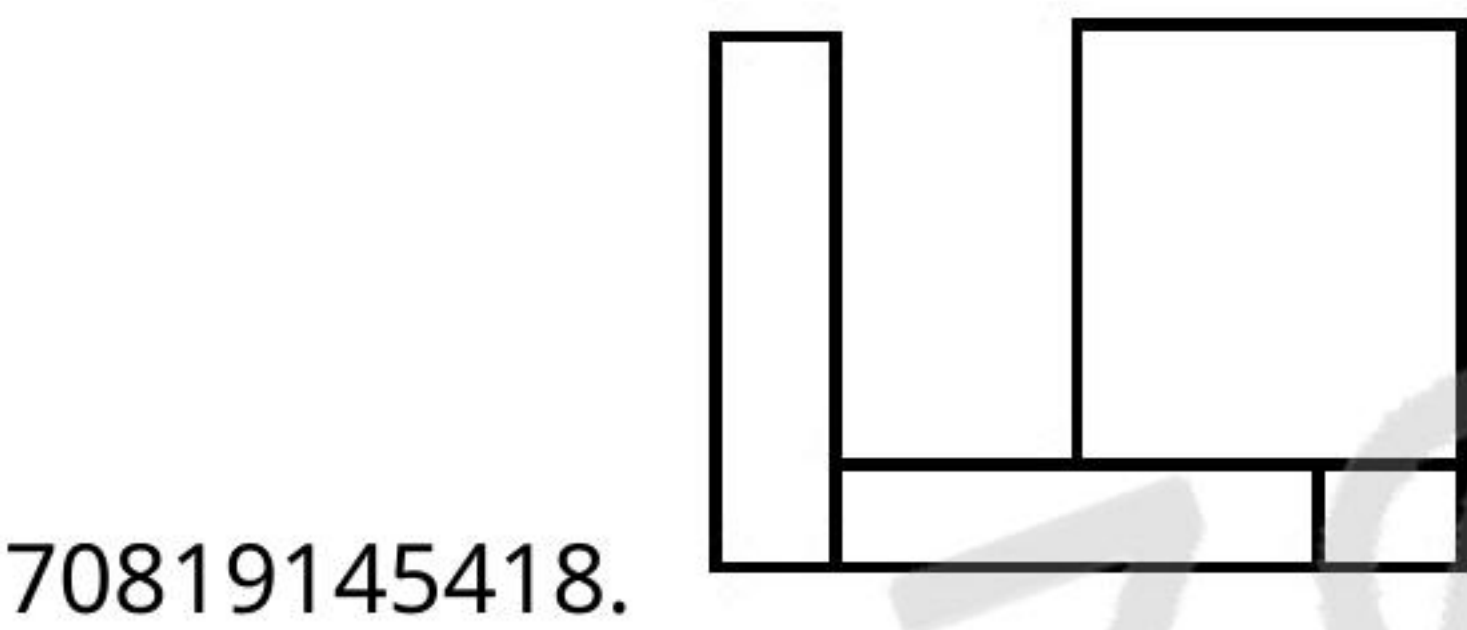
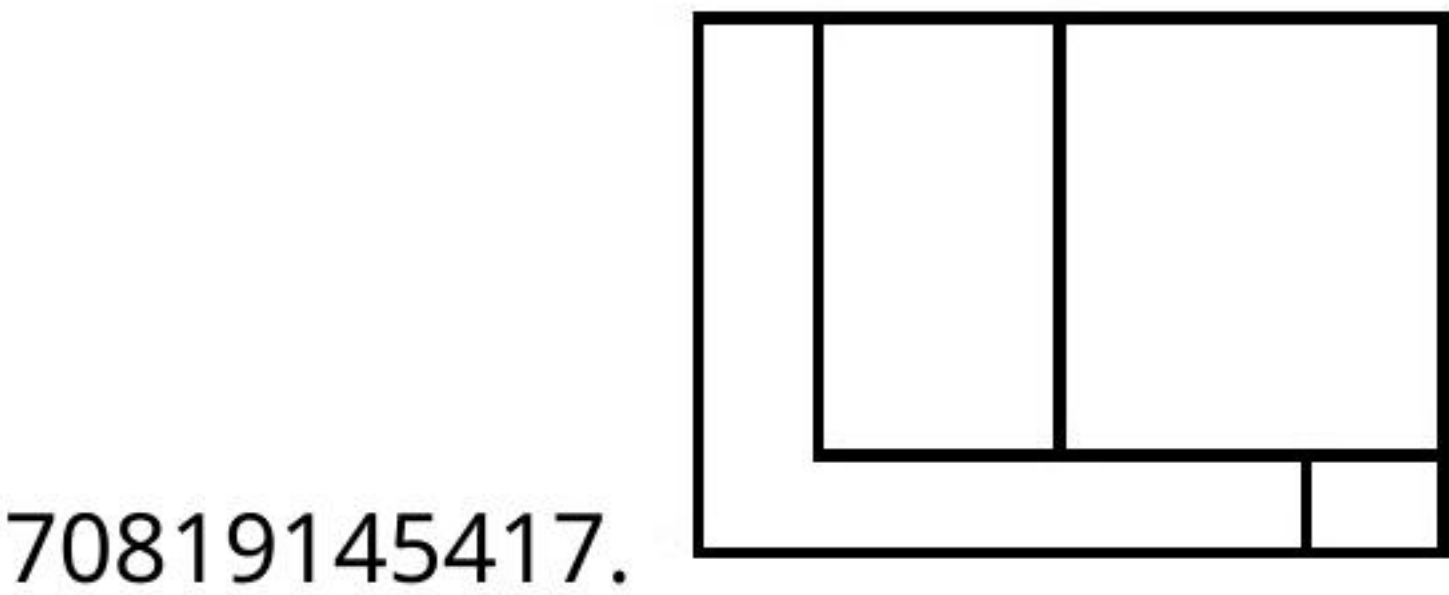


Correct Marks : 4 Wrong Marks : 1

The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.



Options :

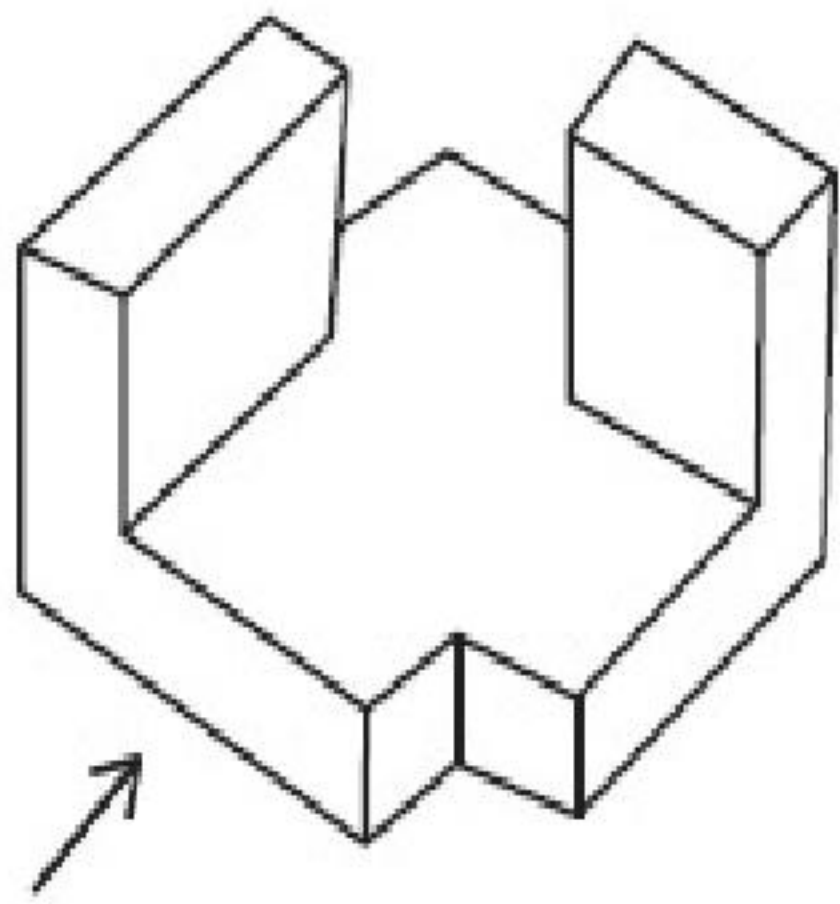


Question Number : 70 Question Id : 70819113711 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

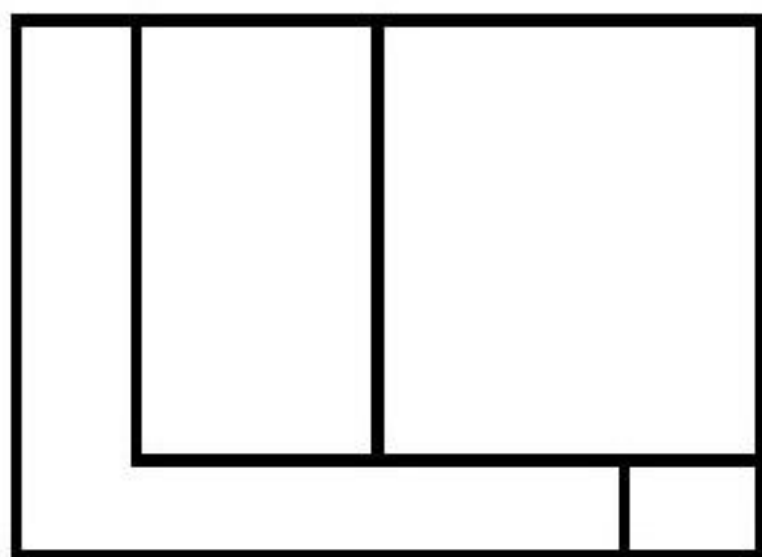
Correct Marks : 4 Wrong Marks : 1

3D आकृति में एक वस्तु के एक दृश्य को दिखाया गया है। तीर की दिशा में देखते हुए, सही दृश्य को उत्तर आकृतियों में से पहचानिए।

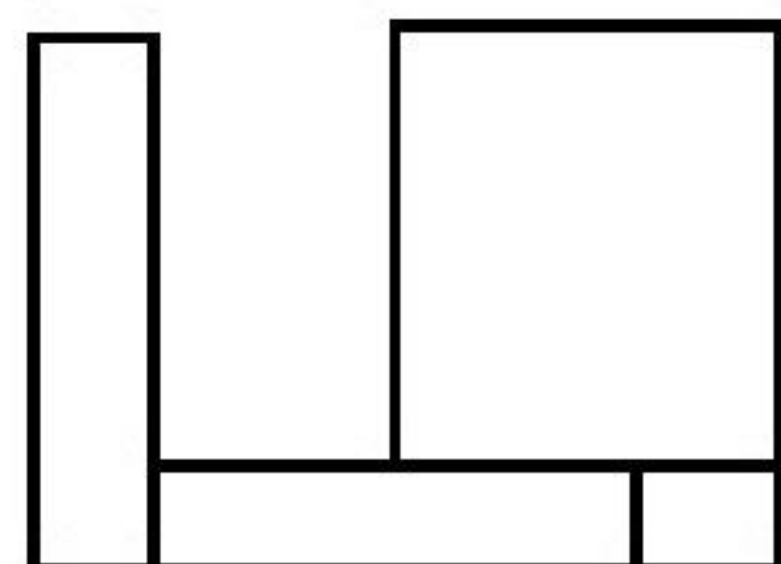


Options :

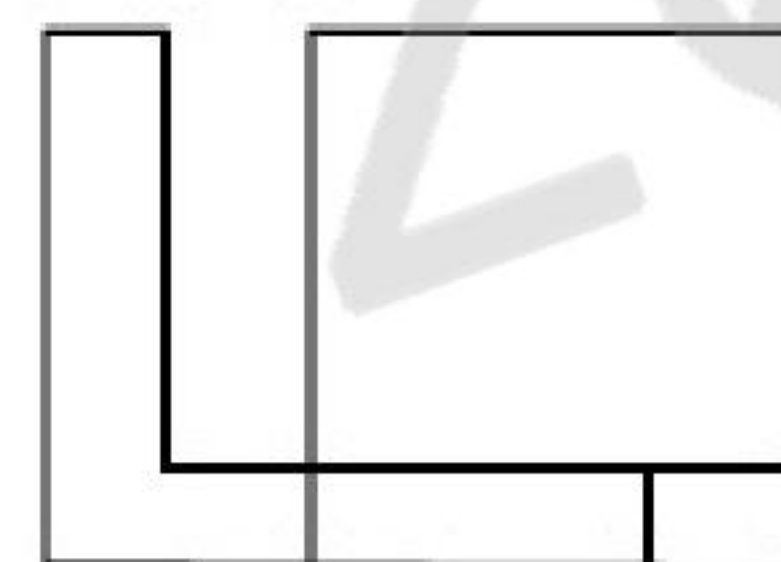
70819145417.



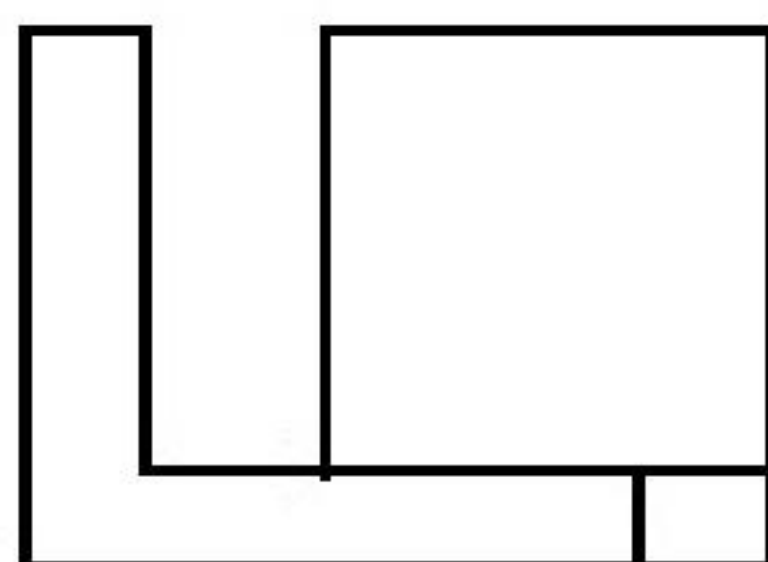
70819145418.



70819145419.



70819145420.

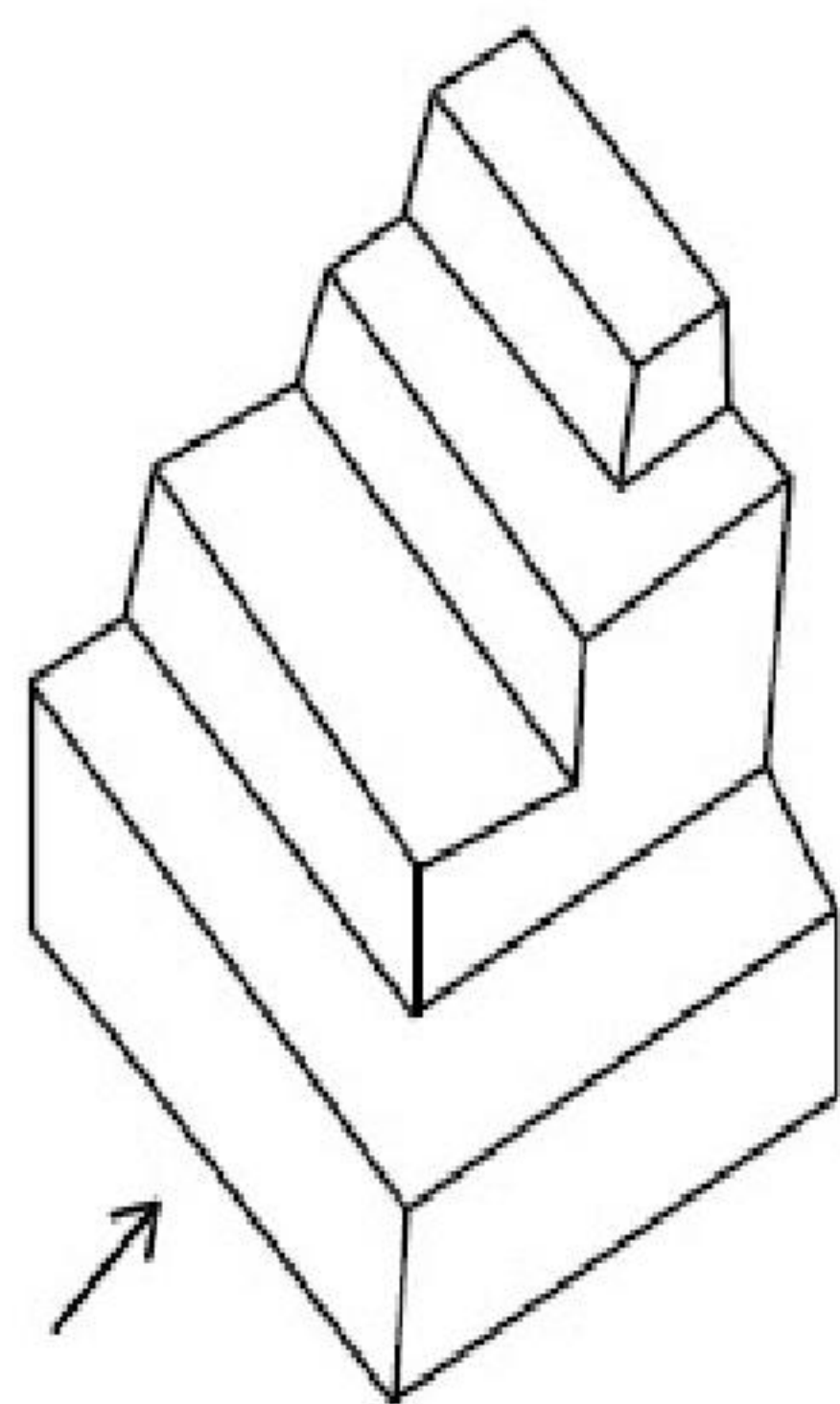


Question Number : 71 Question Id : 70819113712 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

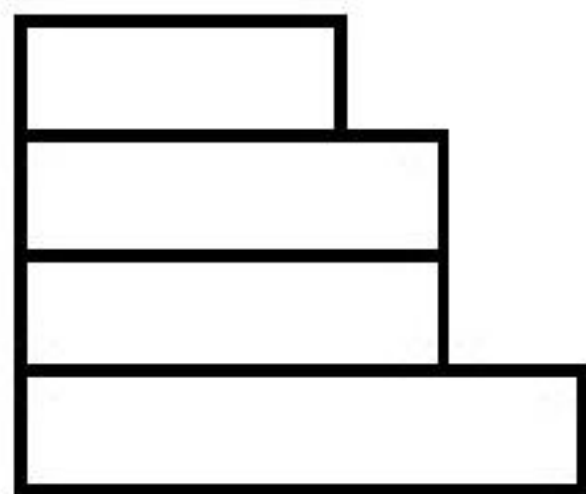
Correct Marks : 4 Wrong Marks : 1

The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.

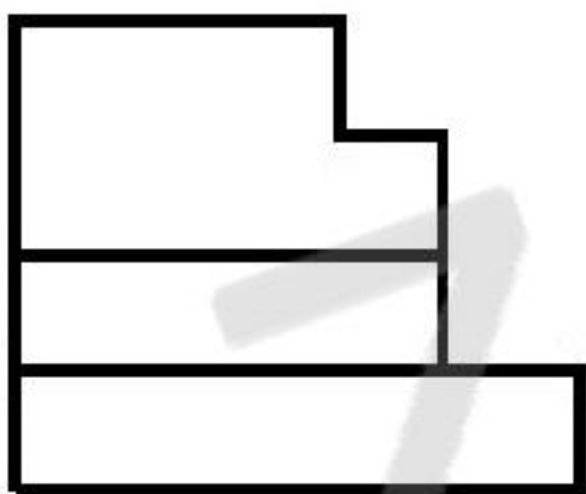


Options :

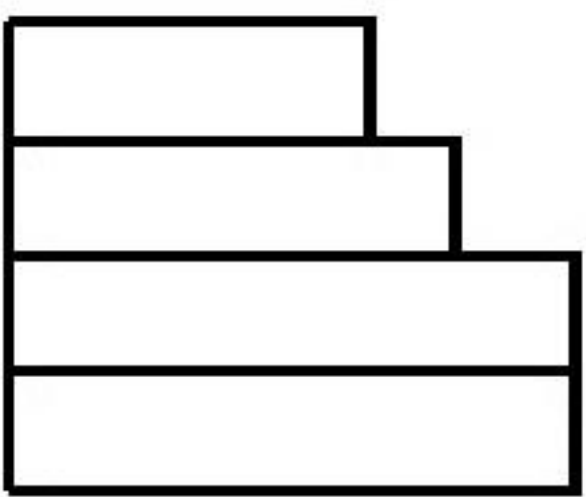
70819145421.



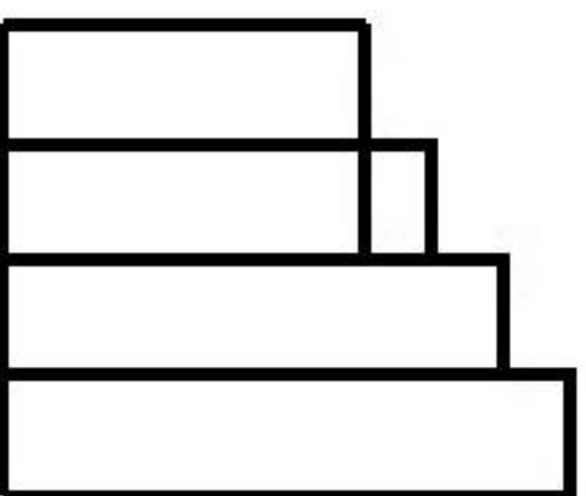
70819145422.



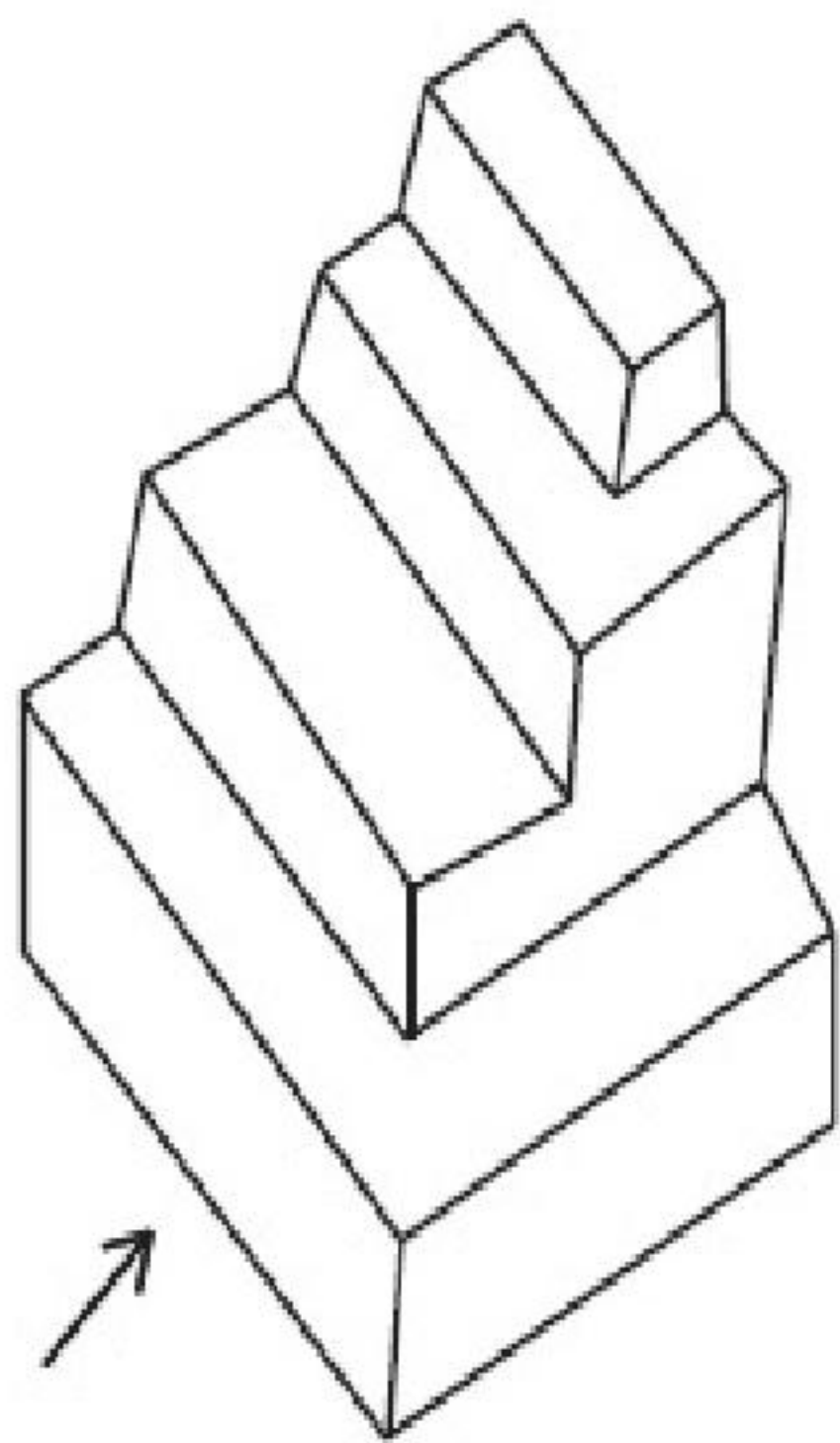
70819145423.



70819145424.

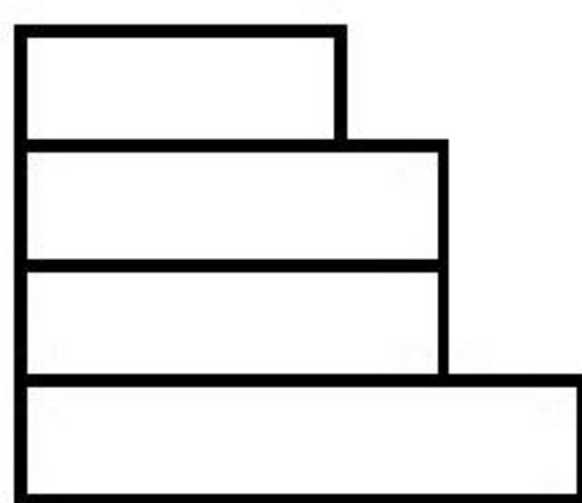


3D आकृति में एक वस्तु के एक दृश्य को दिखाया गया है। तीर की दिशा में देखते हुए, सही दृश्य को उत्तर आकृतियों में से पहचानिए।

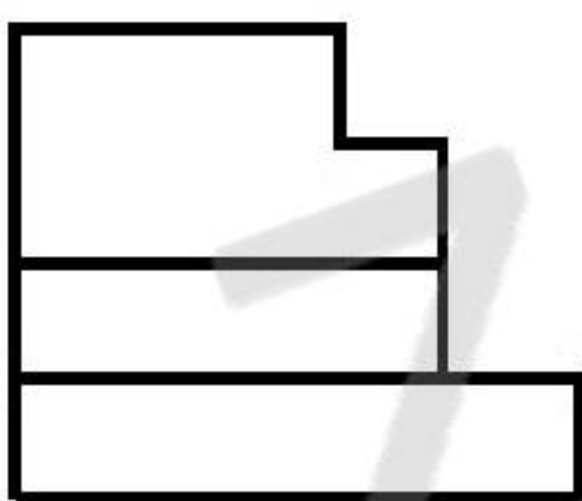


Options :

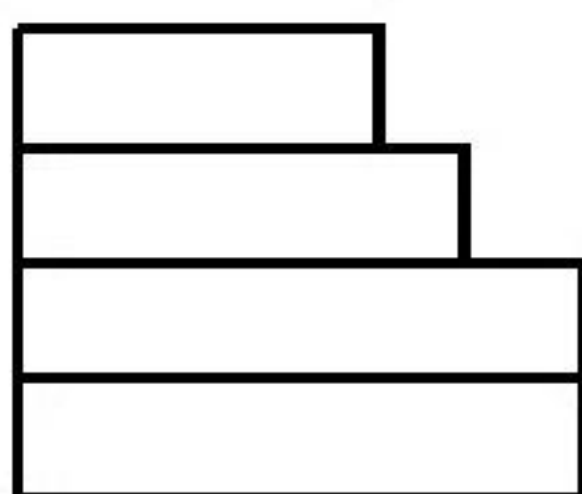
70819145421.



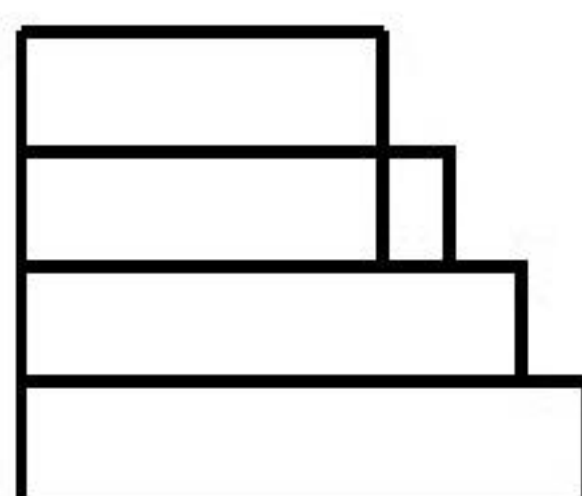
70819145422.



70819145423.



70819145424.

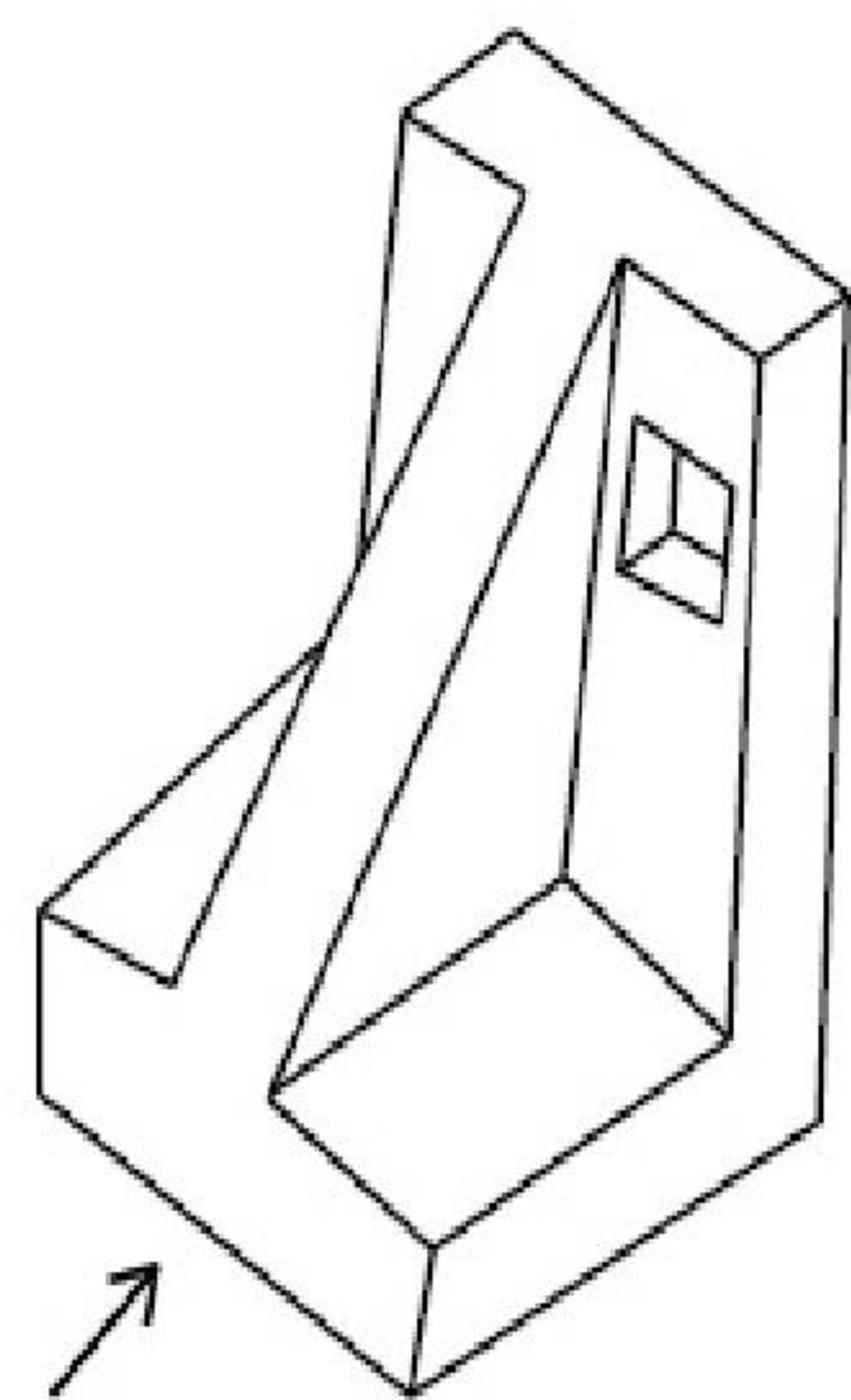


Question Number : 72 Question Id : 70819113713 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

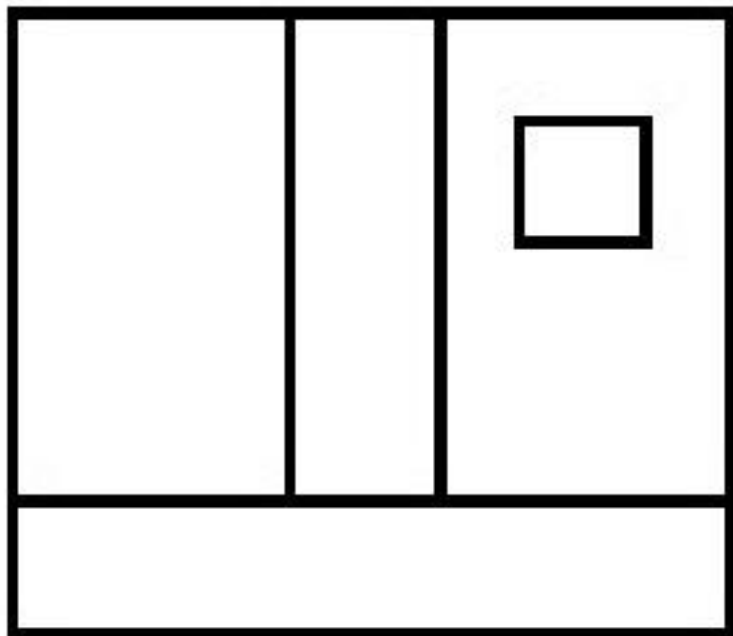
Correct Marks : 4 Wrong Marks : 1

The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.

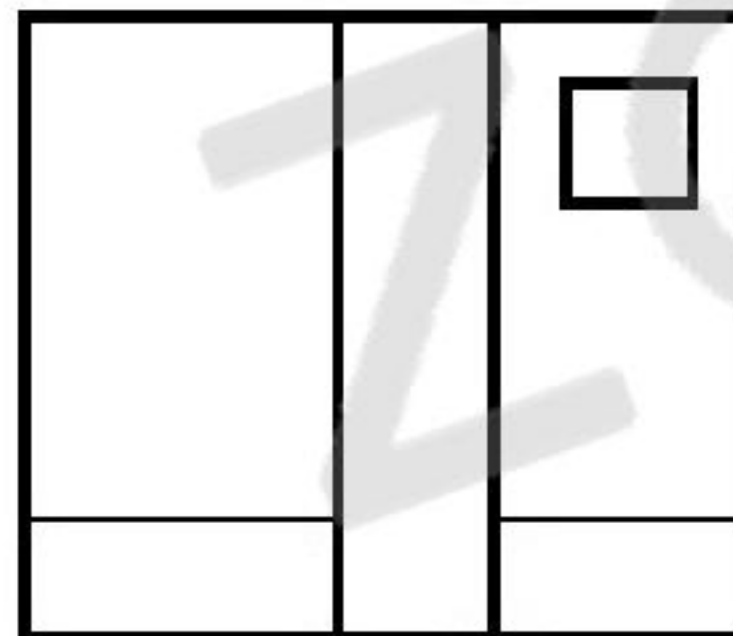


Options :

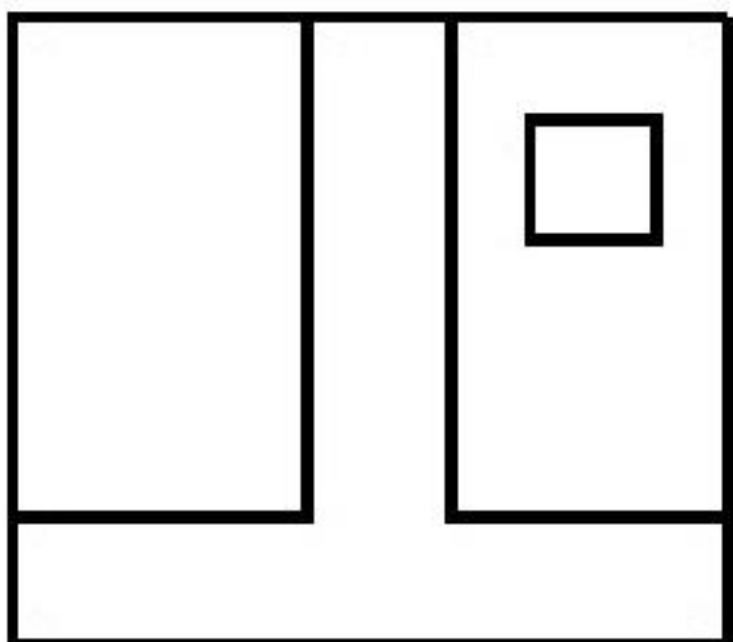
70819145425.



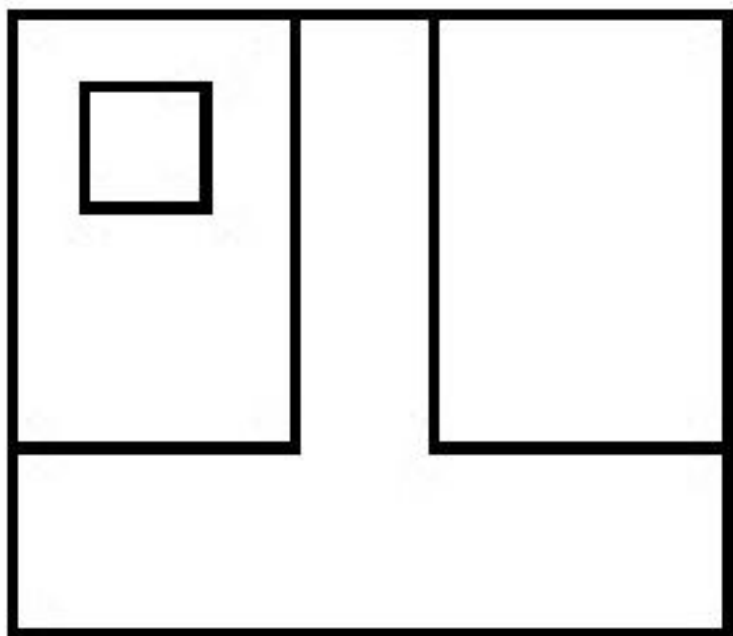
70819145426.



70819145427.



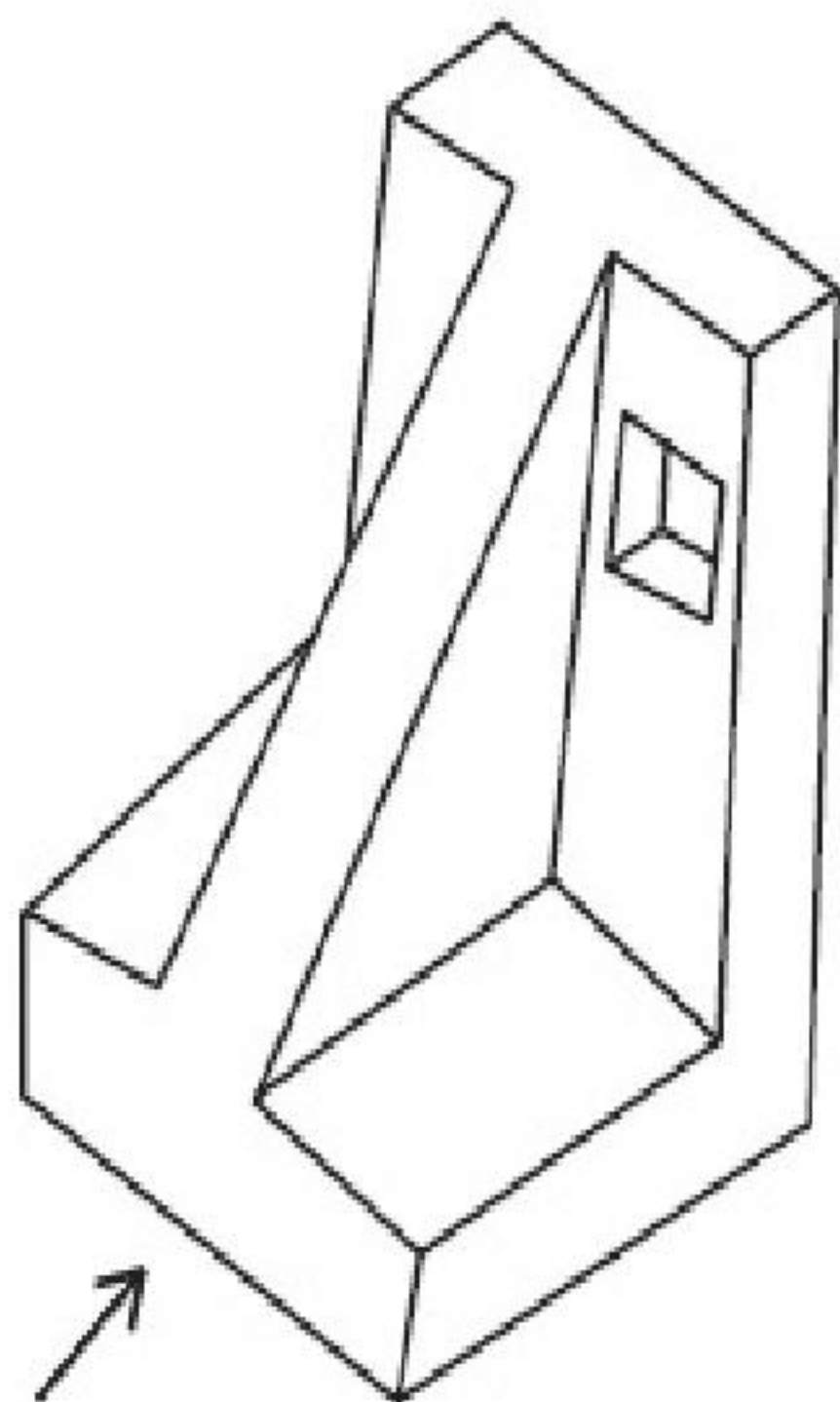
70819145428.



Is Question Mandatory : No

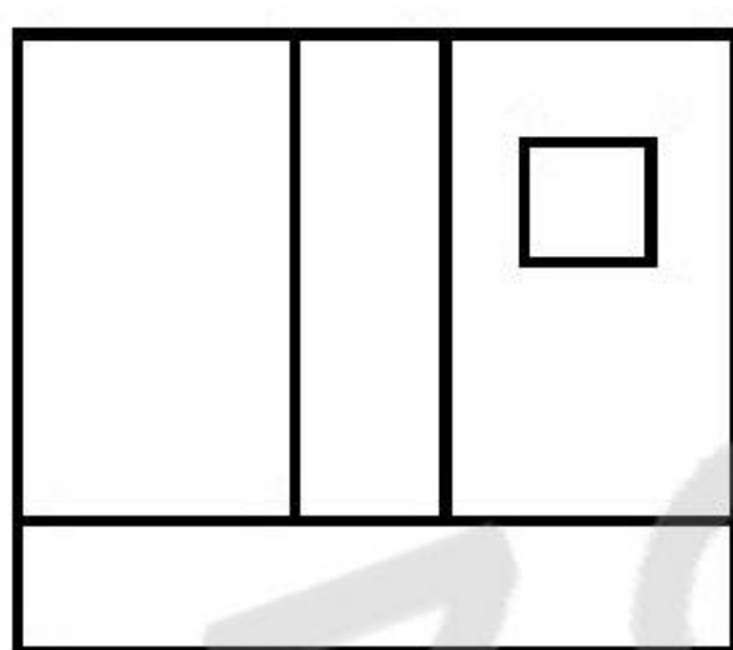
Correct Marks : 4 Wrong Marks : 1

3D आकृति में एक वस्तु के एक दृश्य को दर्शाया गया है। तीर की दिशा में देखते हुए, सही दृश्य को उत्तर आकृतियों में से पहचानिए।

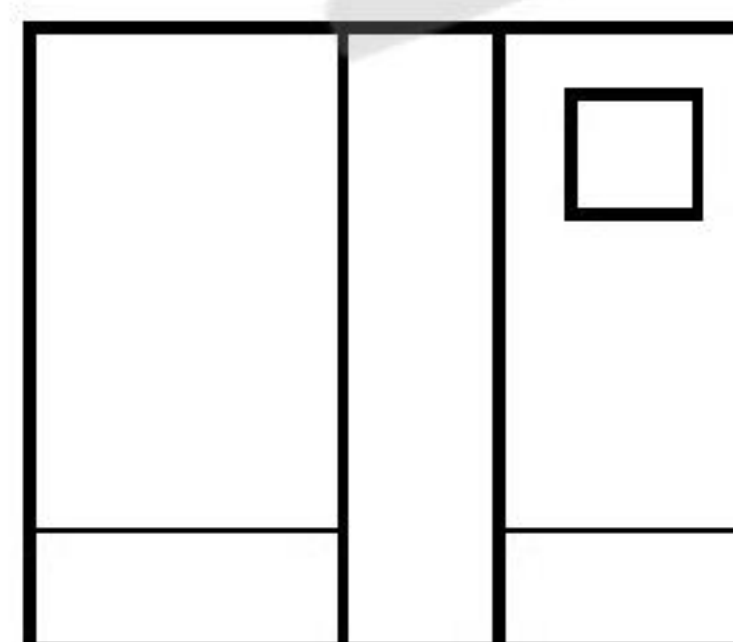


Options :

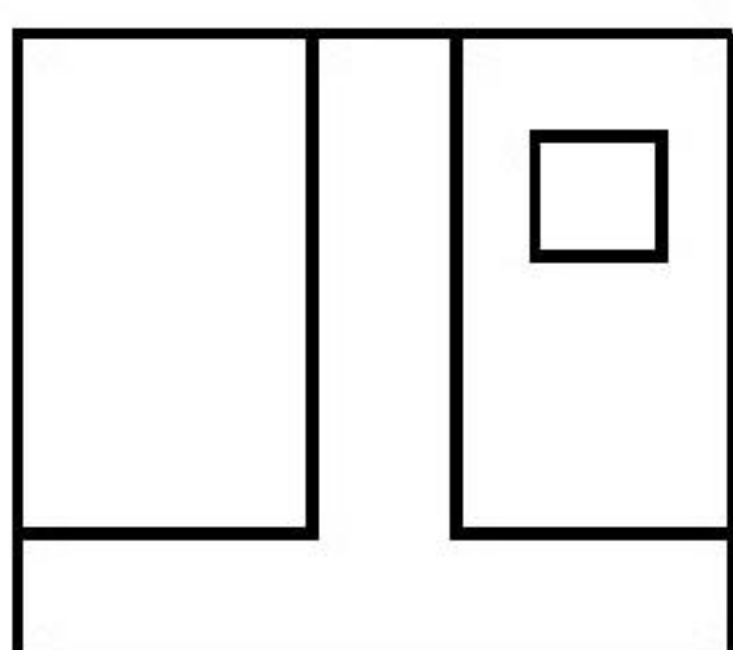
70819145425.



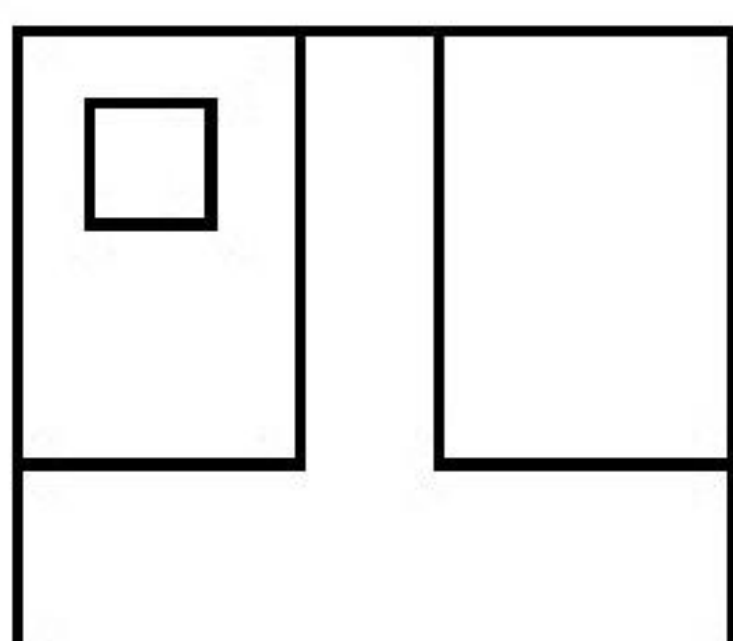
70819145426.



70819145427.



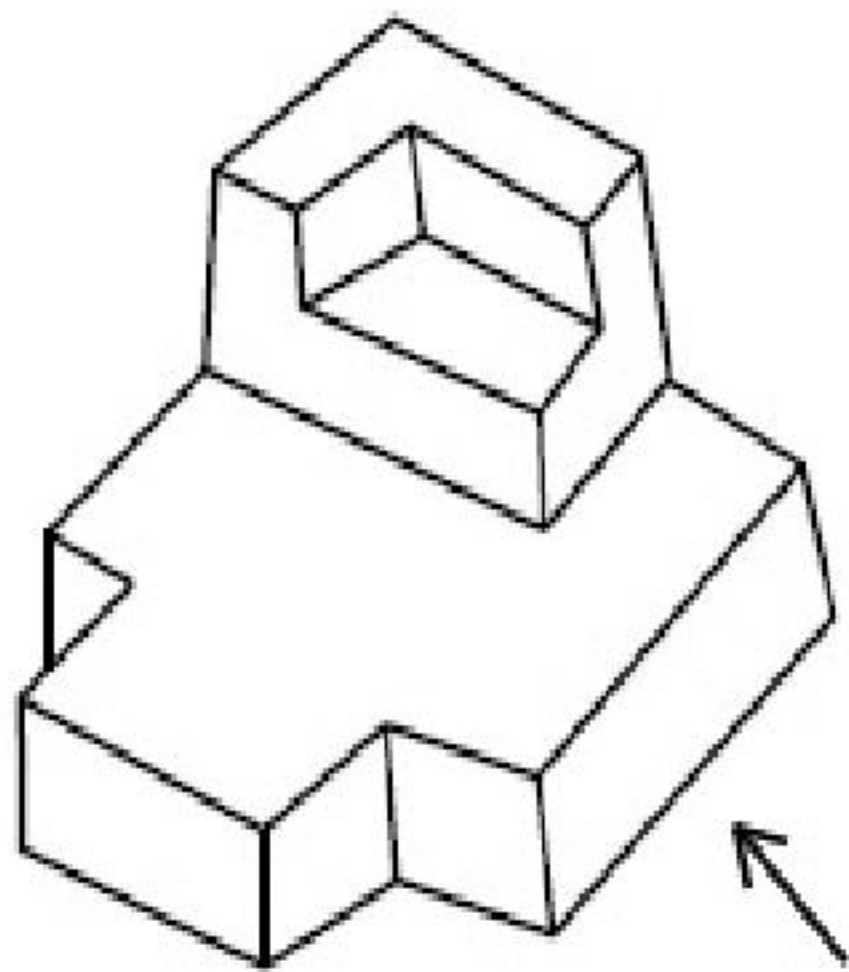
70819145428.



Question Number : 73 Question Id : 70819113714 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

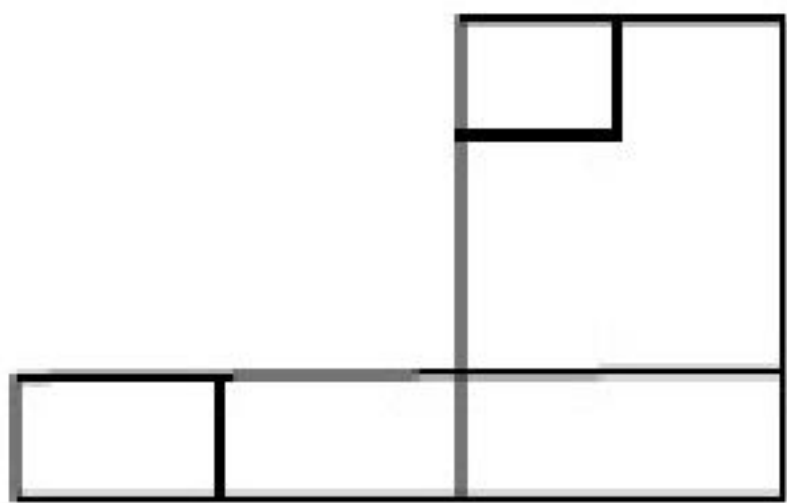
Correct Marks : 4 Wrong Marks : 1

The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.

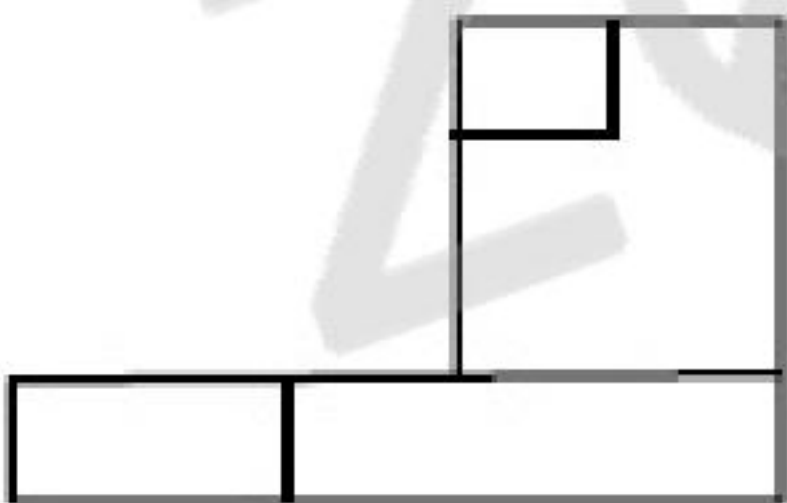


Options :

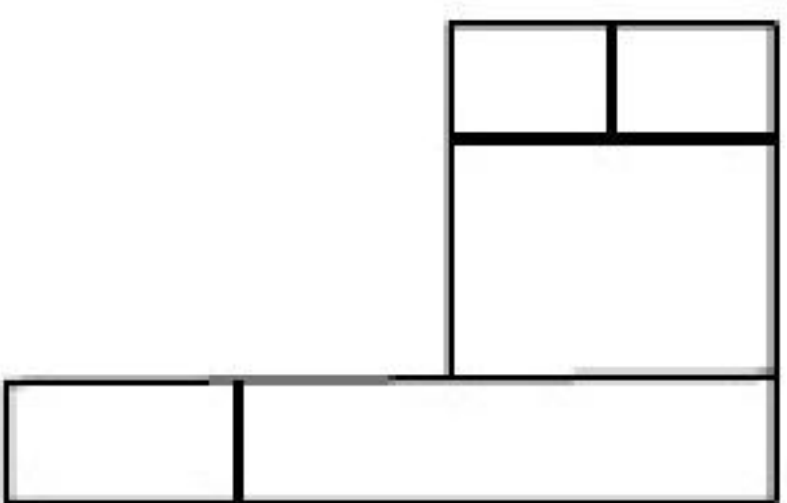
70819145429.



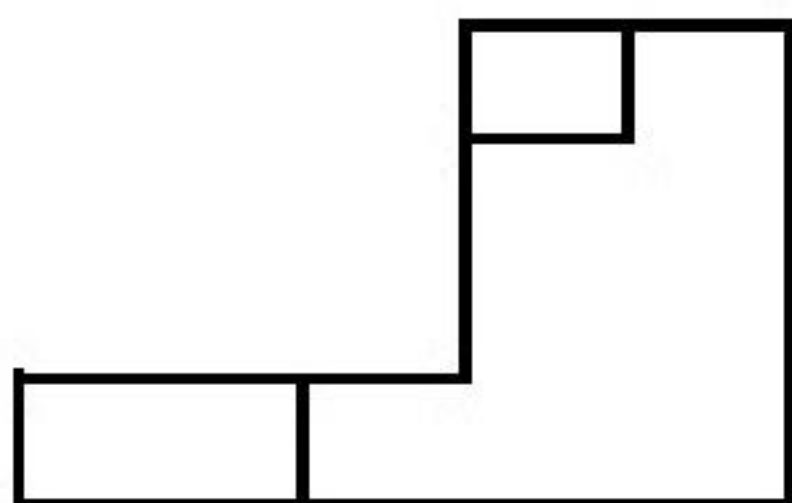
70819145430.



70819145431.



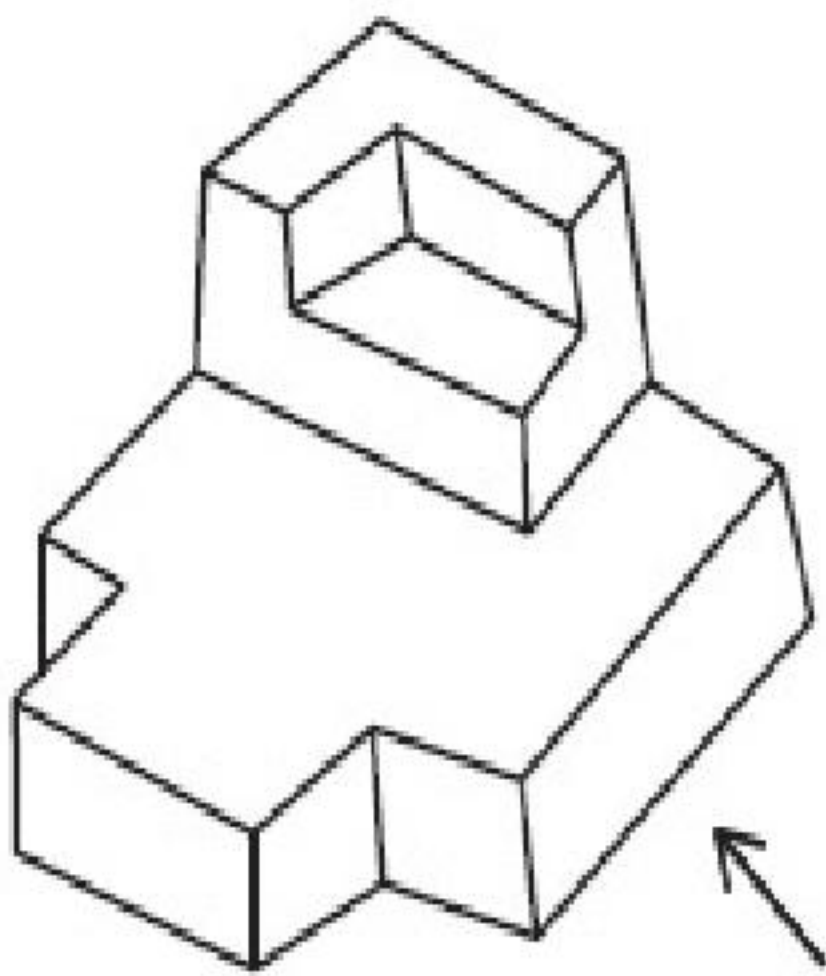
70819145432.



Question Number : 73 Question Id : 70819113714 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

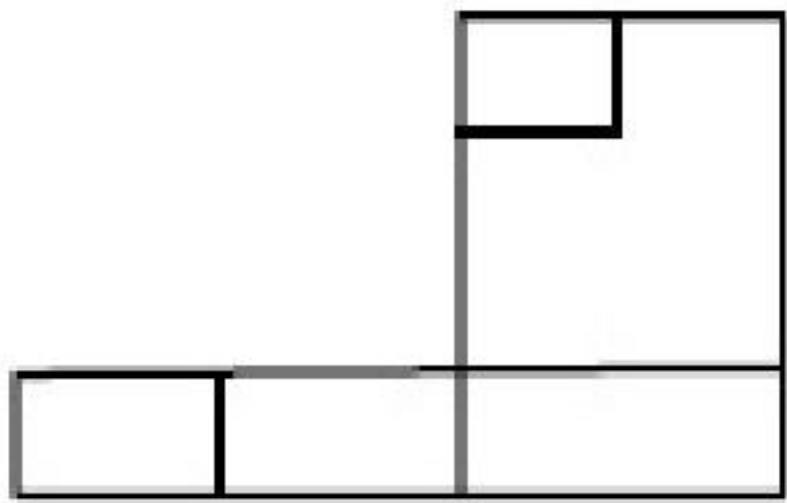
Correct Marks : 4 Wrong Marks : 1

3D आकृति में एक वस्तु के एक दृश्य को दर्शाया गया है। तीर की दिशा में देखते हुए, सही दृश्य को उत्तर आकृतियों में से पहचानिए।

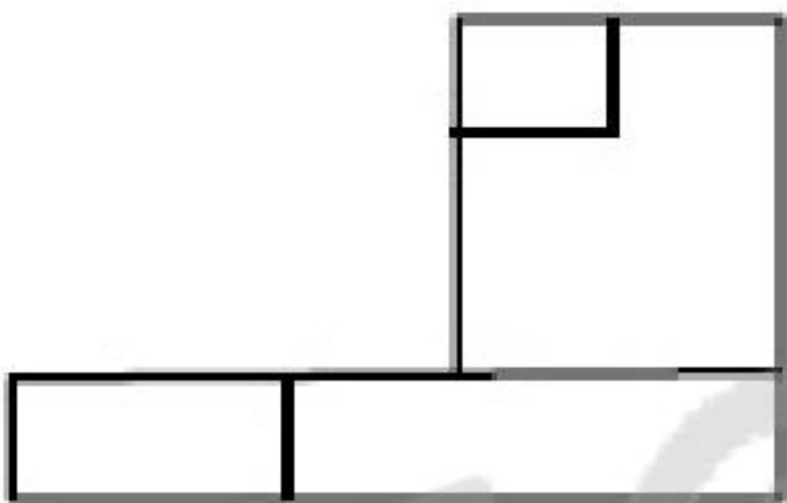


Options :

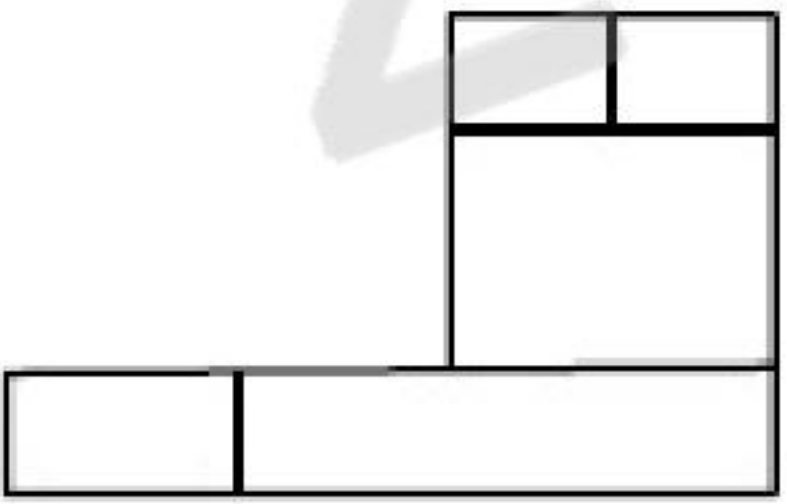
70819145429.



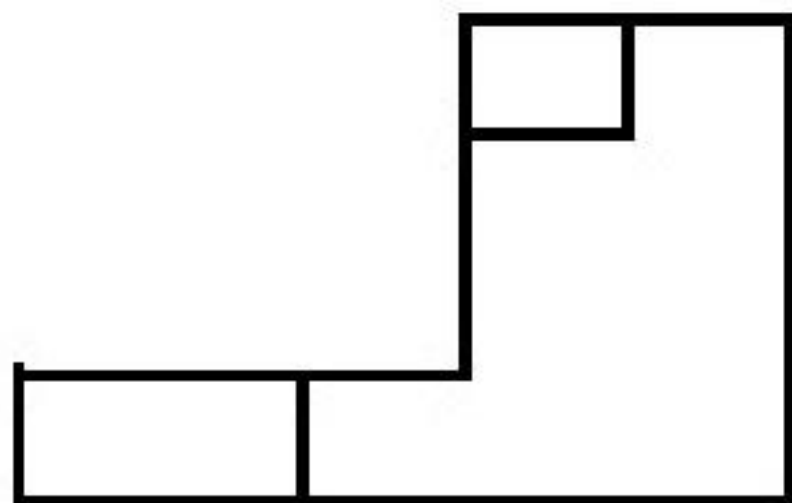
70819145430.



70819145431.



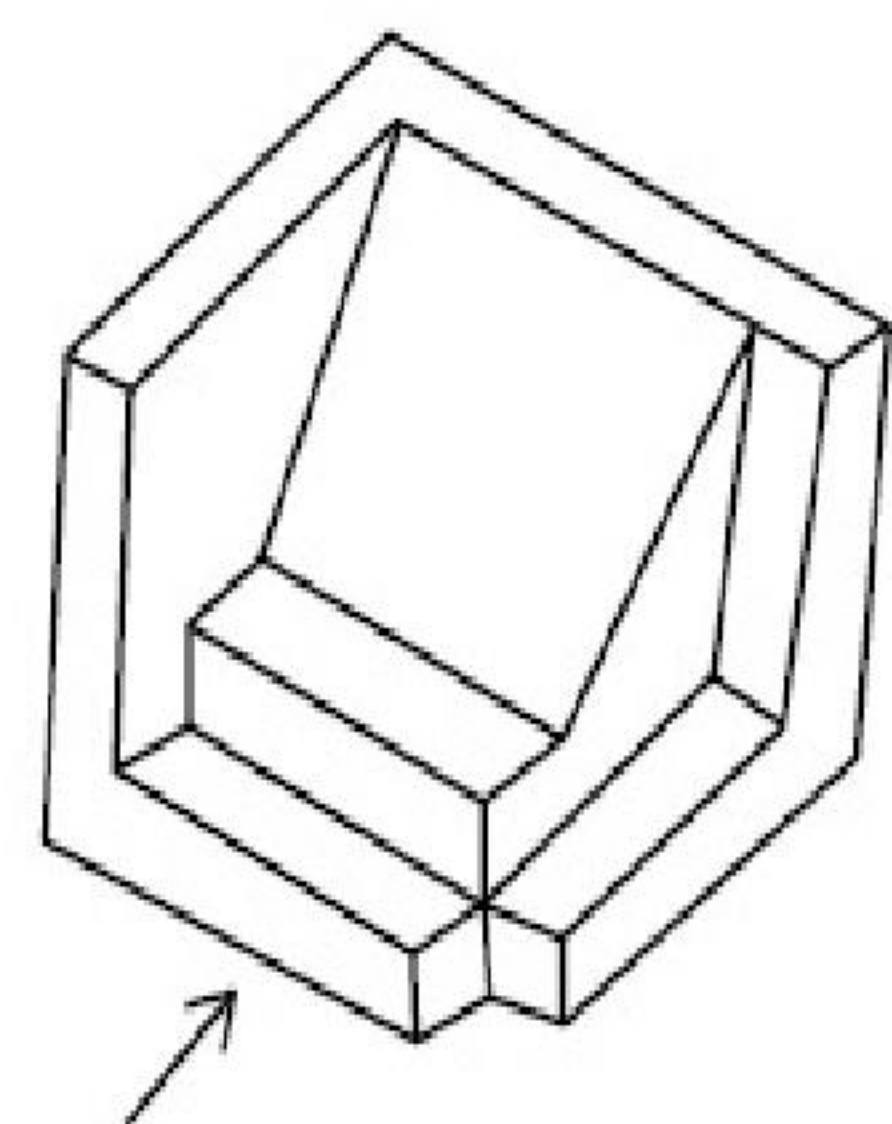
70819145432.



Question Number : 74 Question Id : 70819113715 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

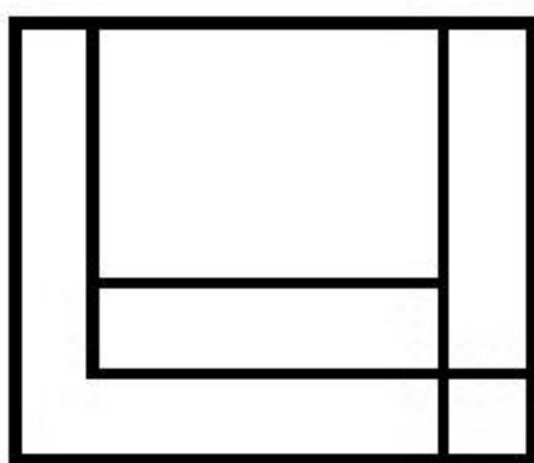
Correct Marks : 4 Wrong Marks : 1

The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.

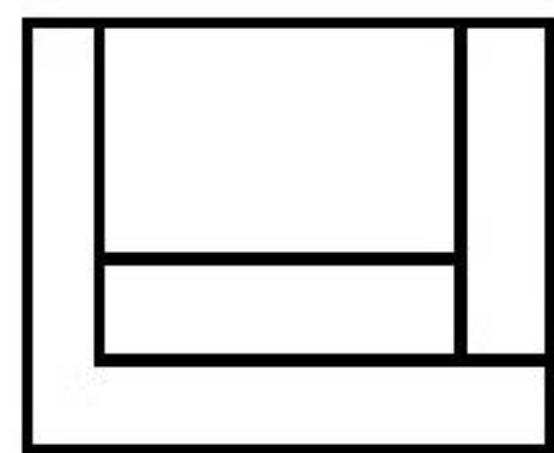


Options :

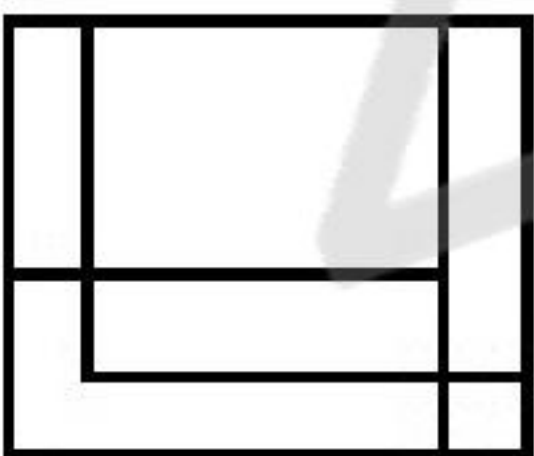
70819145433.



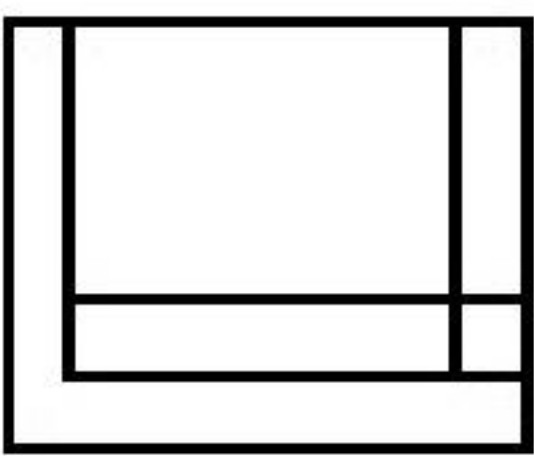
70819145434.



70819145435.



70819145436.

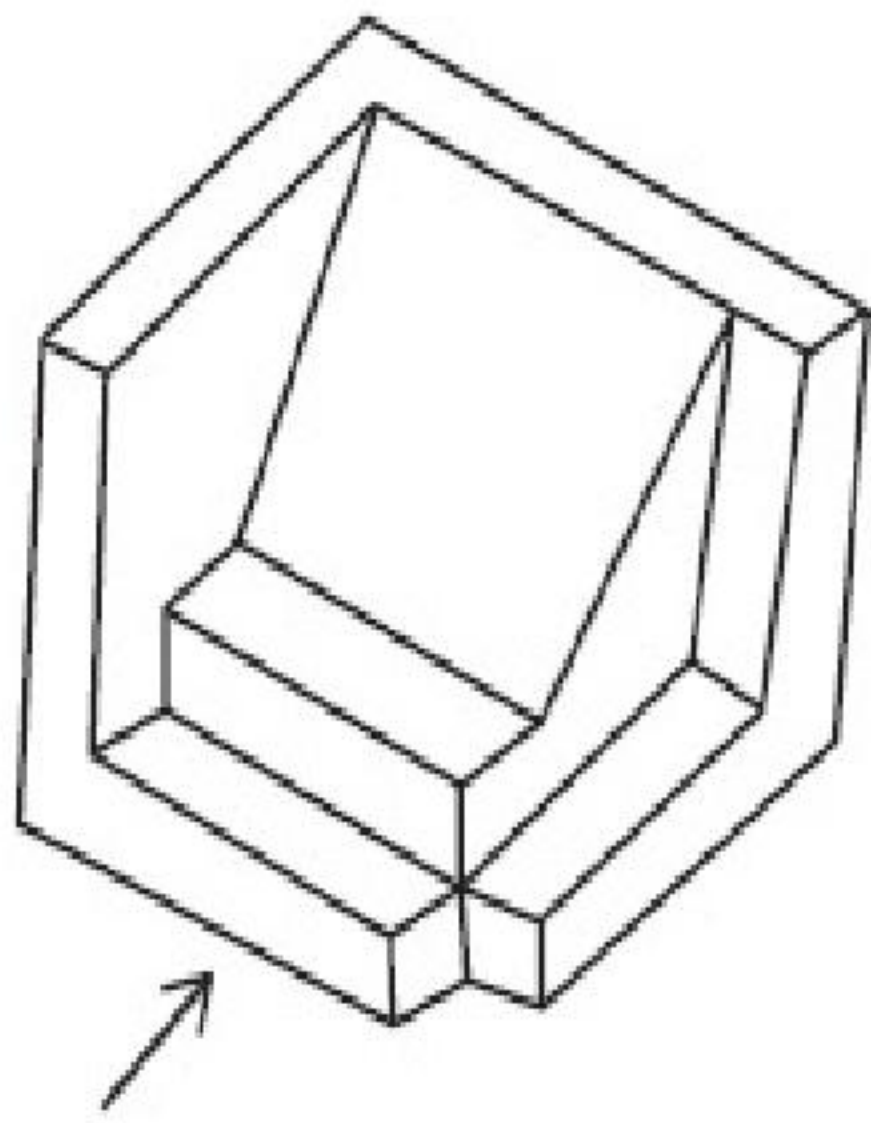


Question Number : 74 Question Id : 70819113715 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

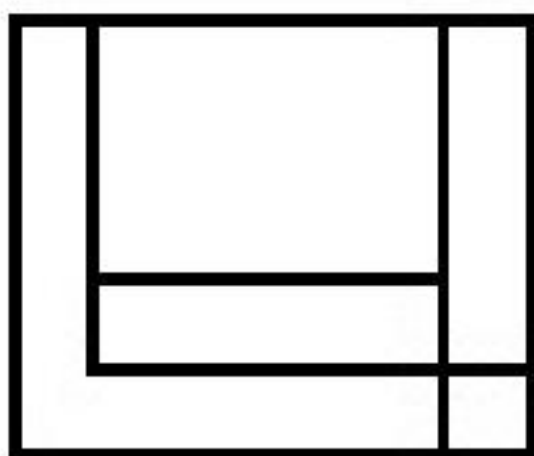
Correct Marks : 4 Wrong Marks : 1

3D आकृति में एक वस्तु के एक दृश्य को दिखाया गया है। तीर की दिशा में देखते हुए, सही दृश्य को उत्तर आकृतियों में से पहचानिए।

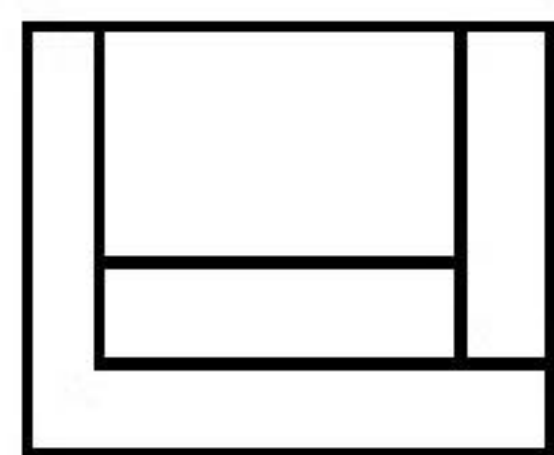


Options :

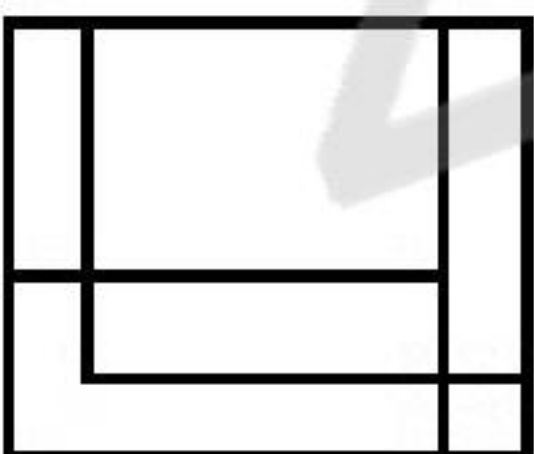
70819145433.



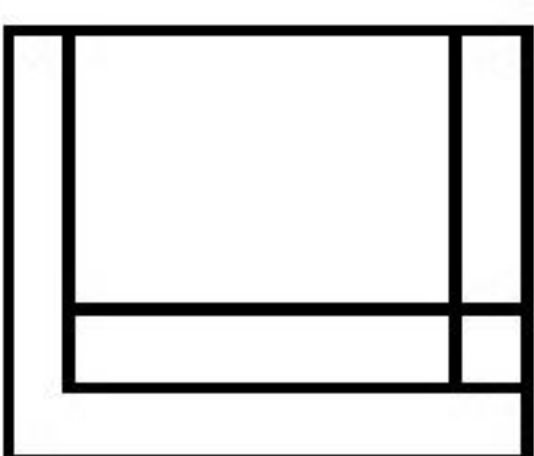
70819145434.



70819145435.



70819145436.

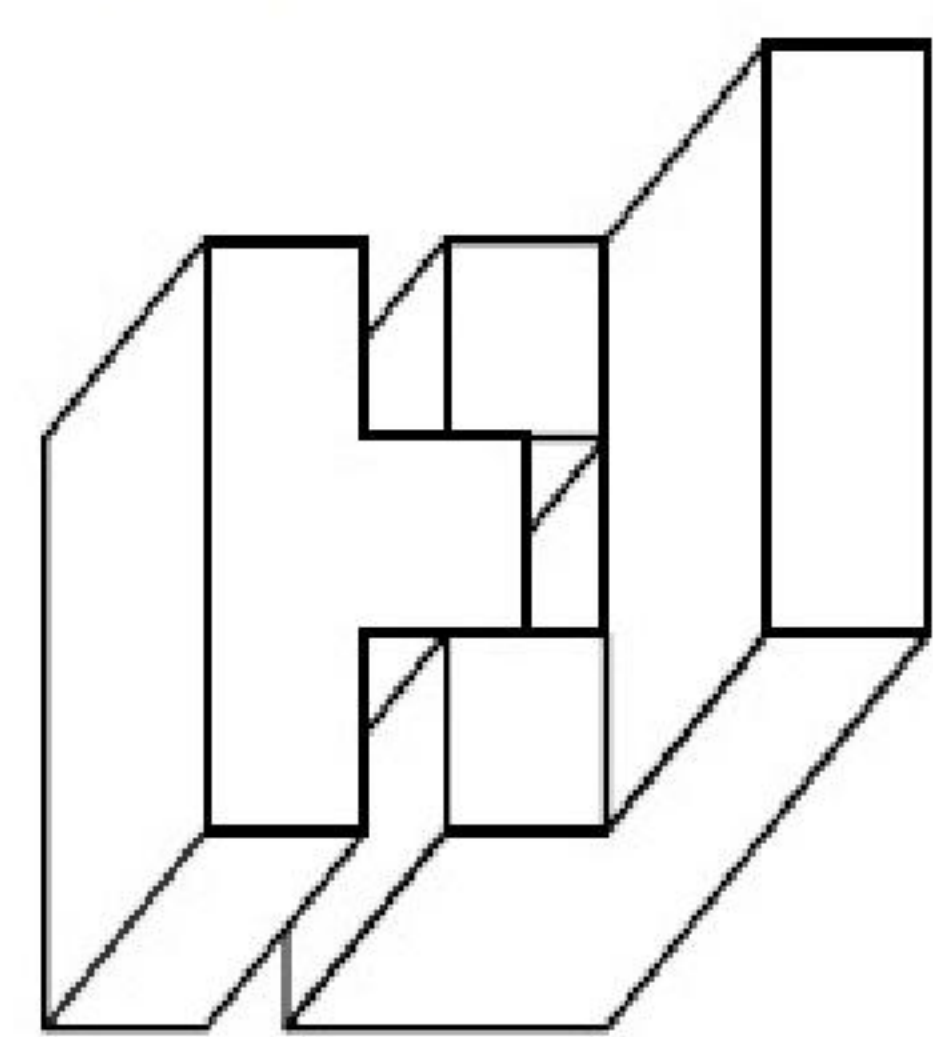


Question Number : 75 Question Id : 70819113716 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

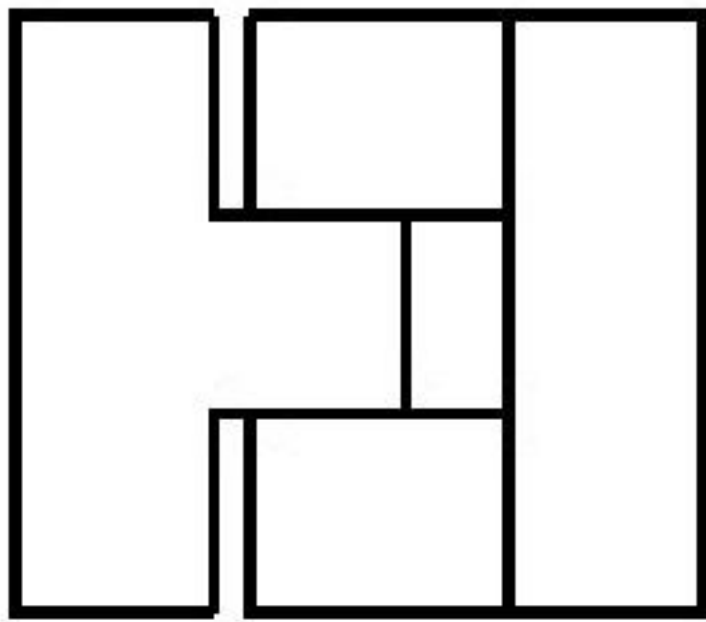
Correct Marks : 4 Wrong Marks : 1

The 3D figure shows the view of an object. Identify the correct top view, amongst the answer figures.

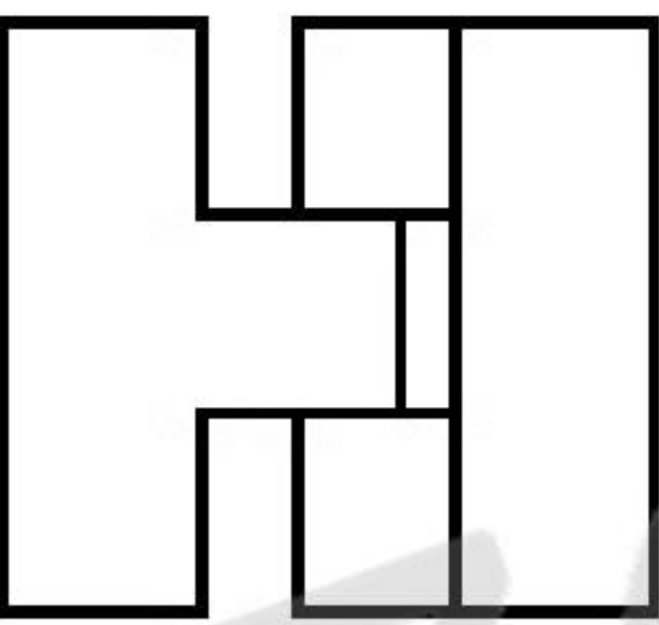


Options :

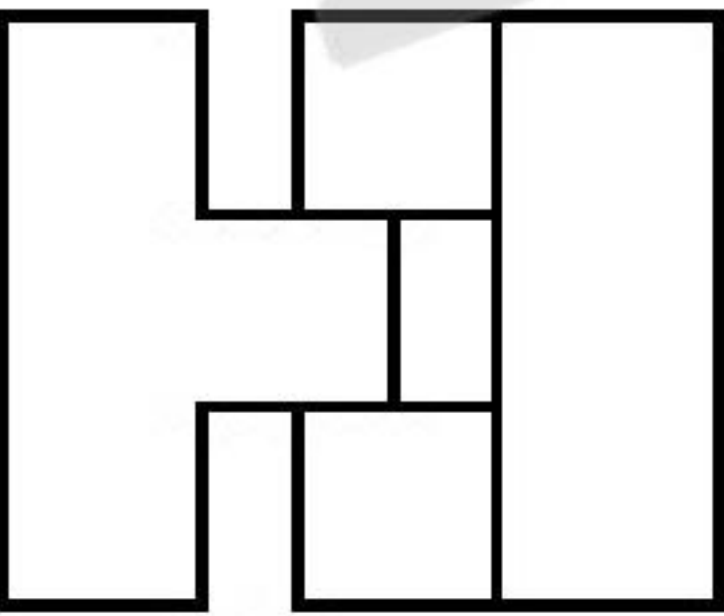
70819145437.



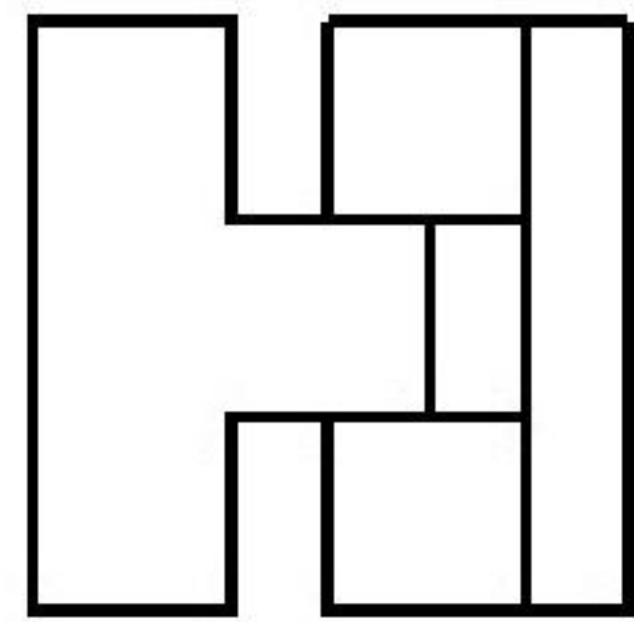
70819145438.



70819145439.

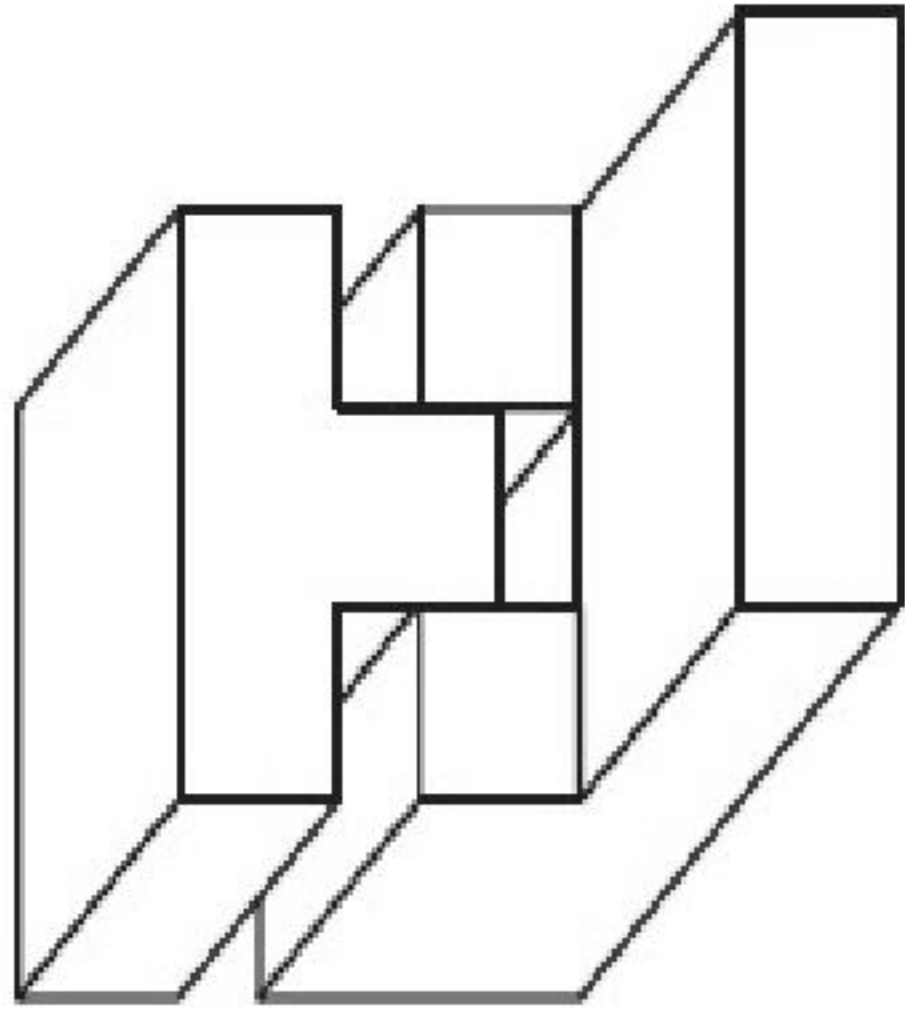


70819145440.



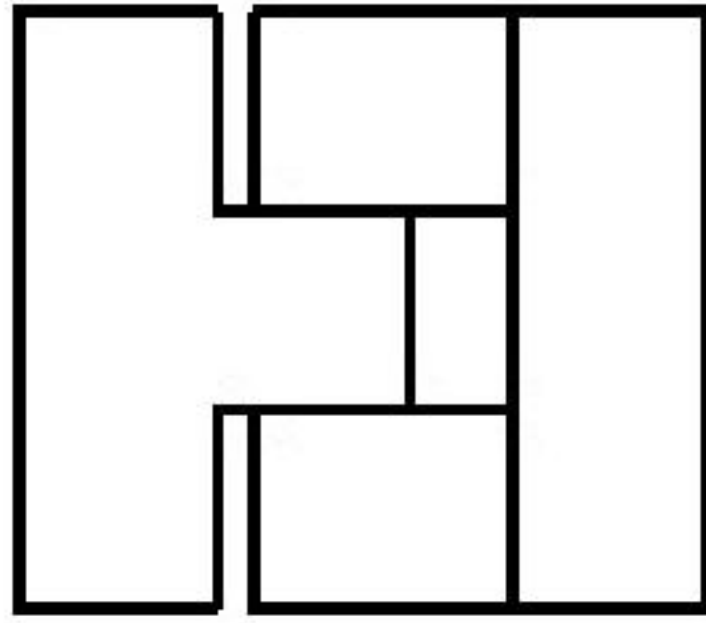
Question Number : 75 Question Id : 70819113716 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No
Correct Marks : 4 Wrong Marks : 1

3D आकृति में एक वस्तु के एक दृश्य को दिखाया गया है। इसका सही ऊपरी दृश्य, उत्तर आकृतियों में से पहचानिए।

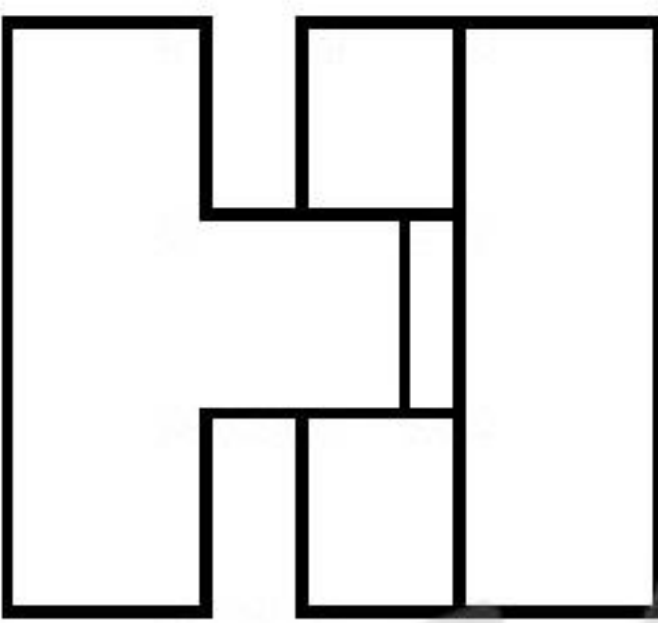


Options :

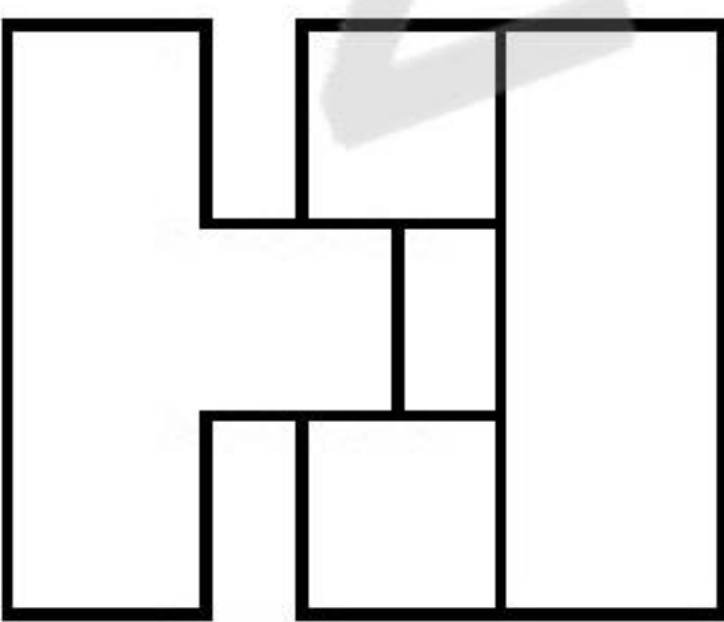
70819145437.



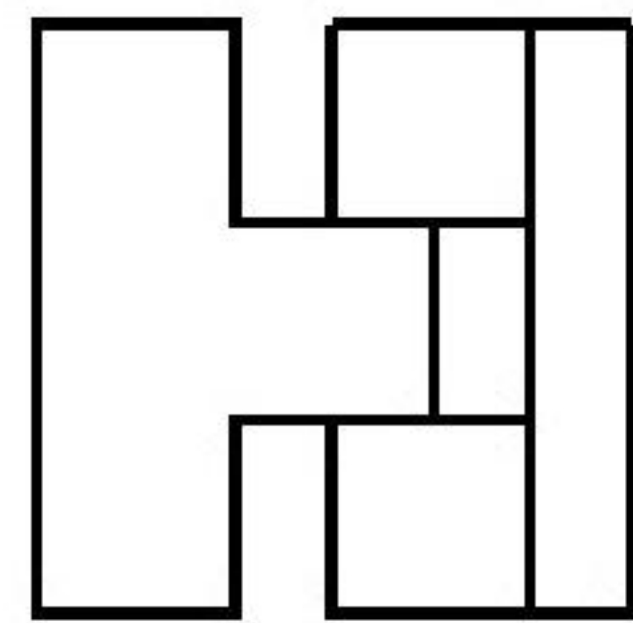
70819145438.



70819145439.



70819145440.

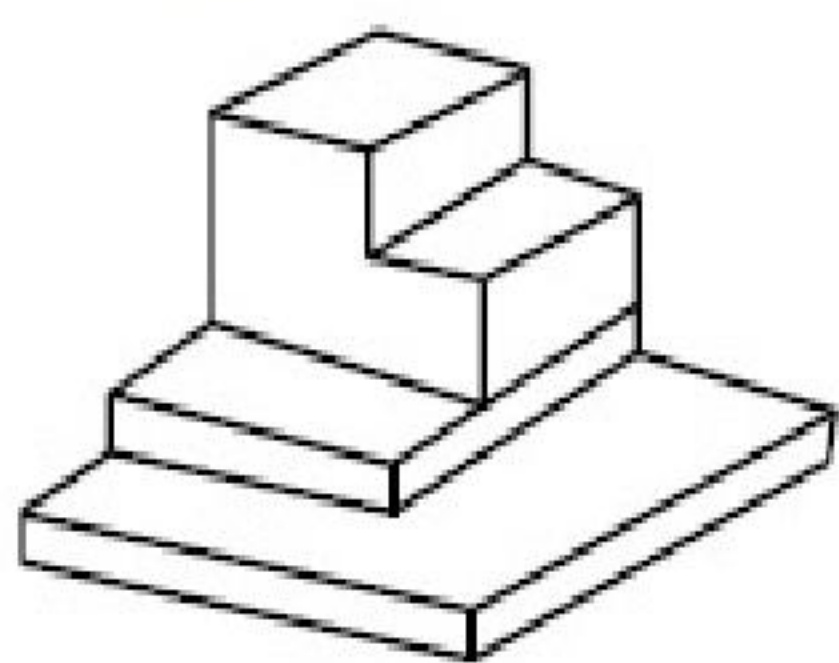


Question Number : 76 Question Id : 70819113717 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

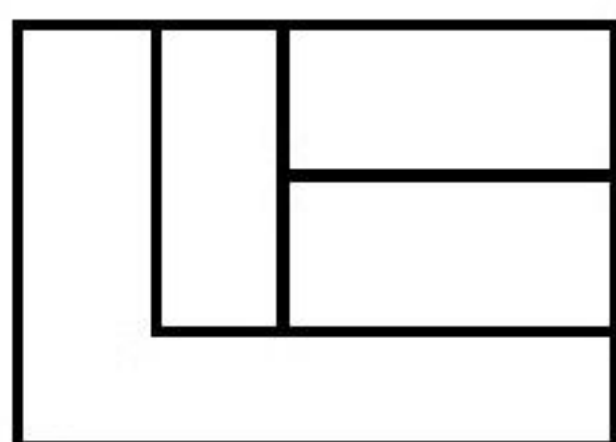
Correct Marks : 4 Wrong Marks : 1

The 3D figure shows the view of an object. Identify the correct top view, amongst the answer figures.

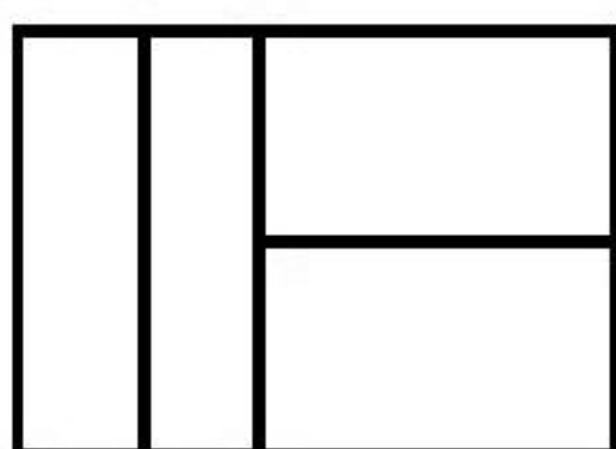


Options :

70819145441.



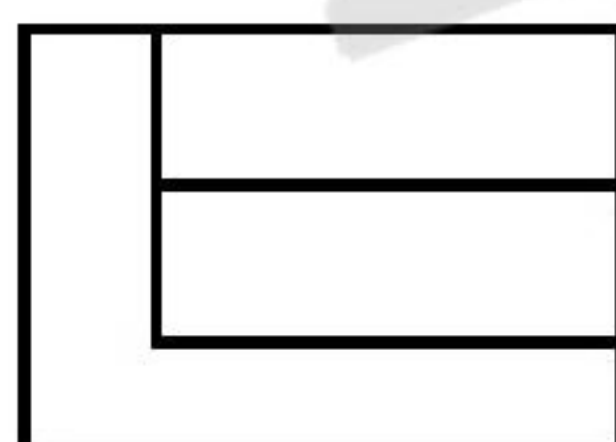
70819145442.



70819145443.



70819145444.

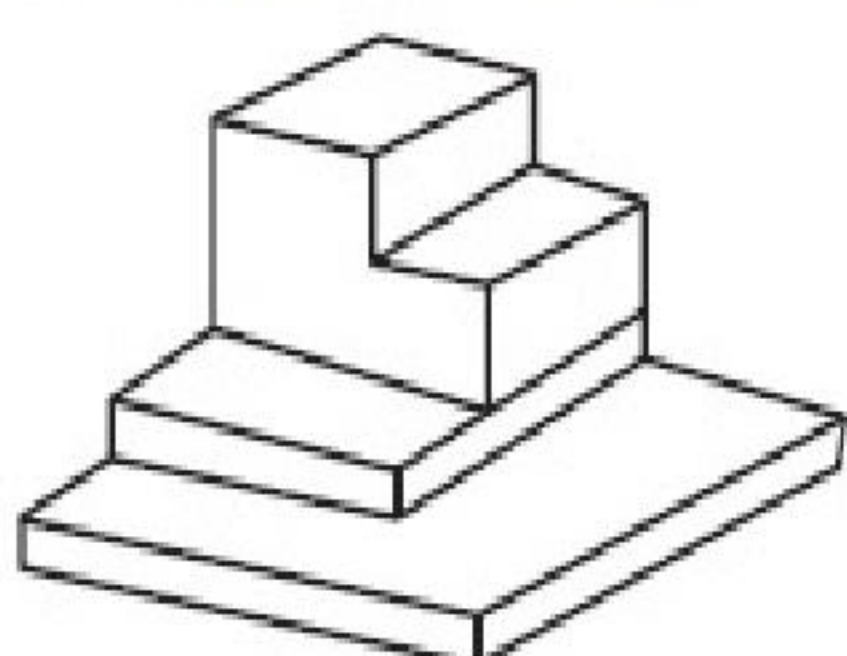


Question Number : 76 Question Id : 70819113717 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

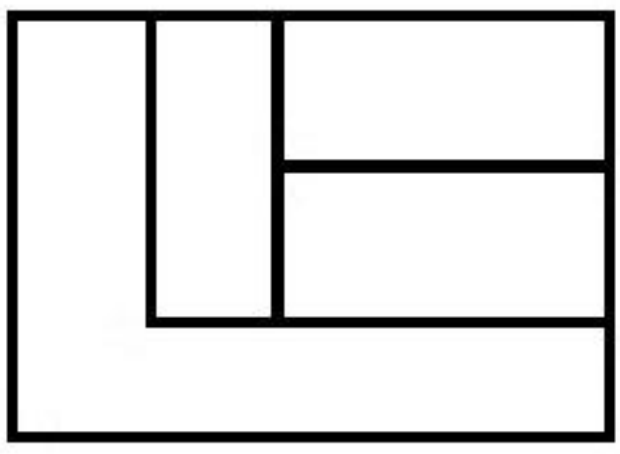
Correct Marks : 4 Wrong Marks : 1

3D आकृति में एक वस्तु के एक दृश्य को दिखाया गया है। इसका सही ऊपरी दृश्य, उत्तर आकृतियों में से पहचानिए।

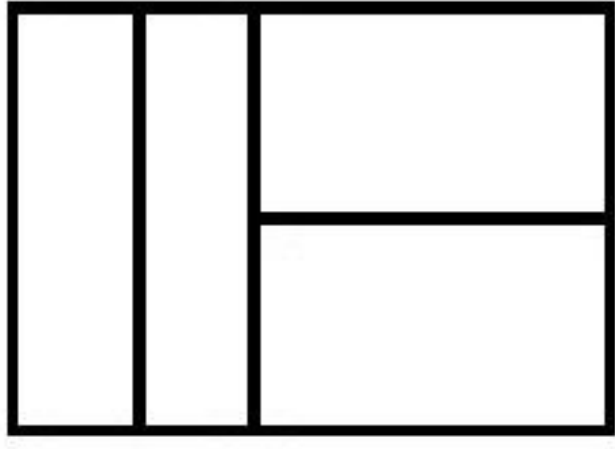


Options :

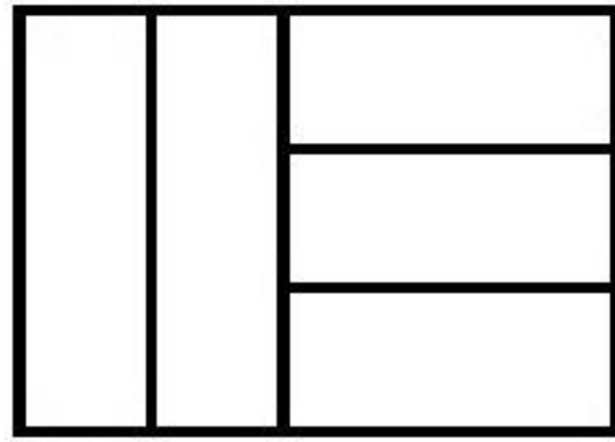
70819145441.



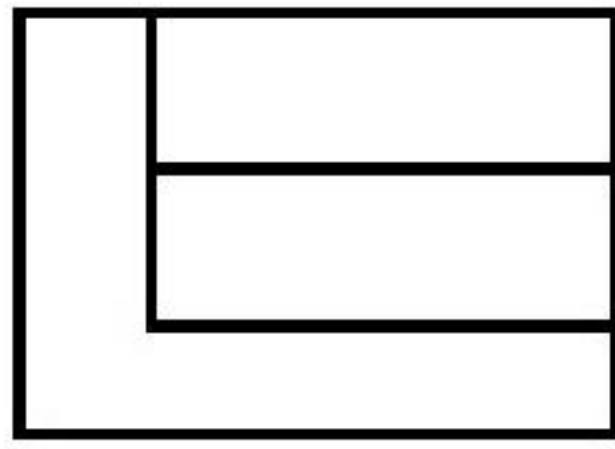
70819145442.



70819145443.



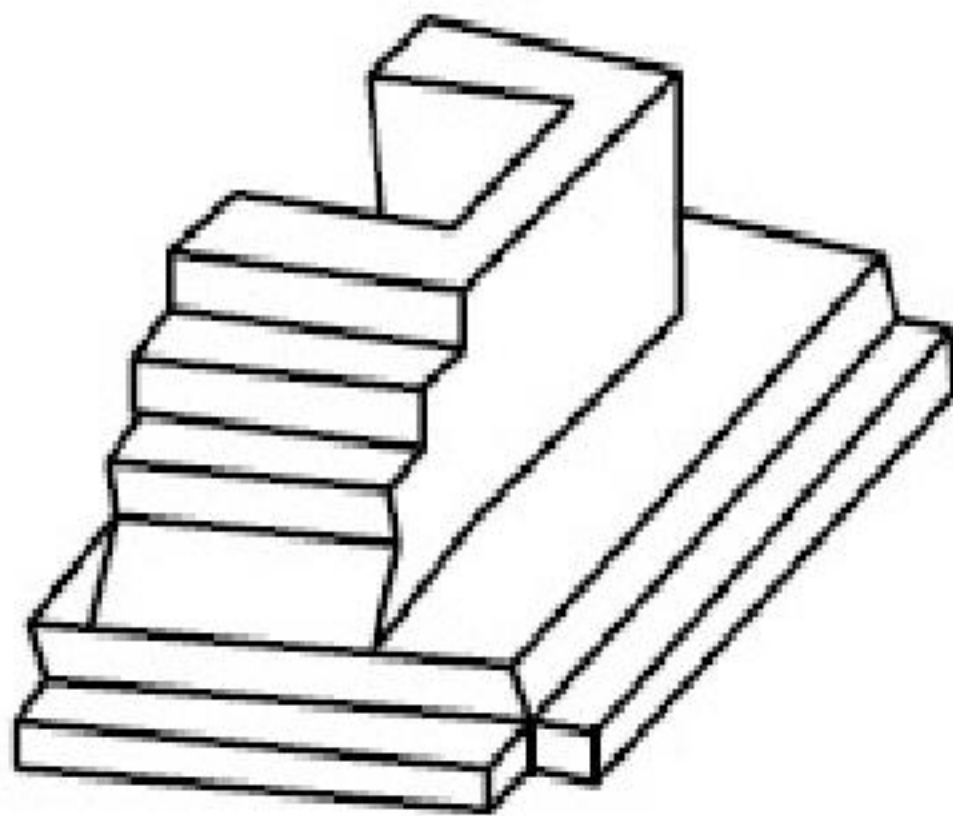
70819145444.



Question Number : 77 Question Id : 70819113718 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

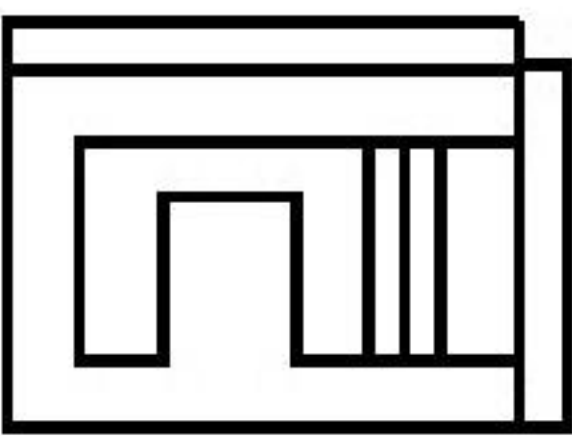
Correct Marks : 4 Wrong Marks : 1

The 3D figure shows the view of an object. Identify the correct top view, amongst the answer figures.

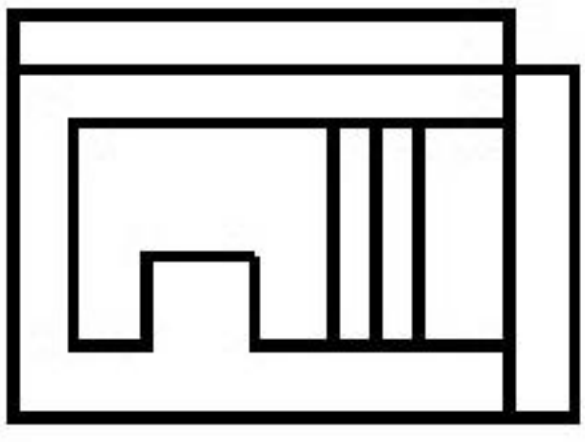


Options :

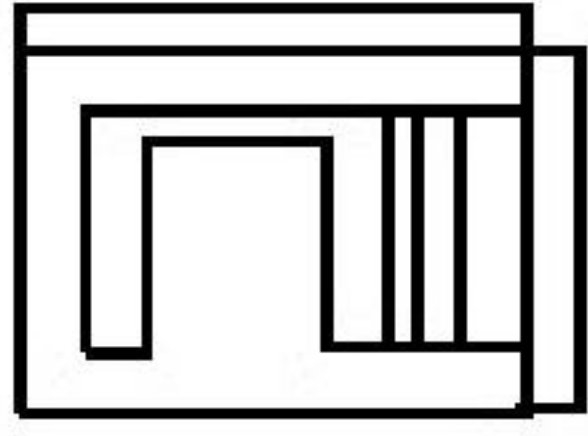
70819145445.



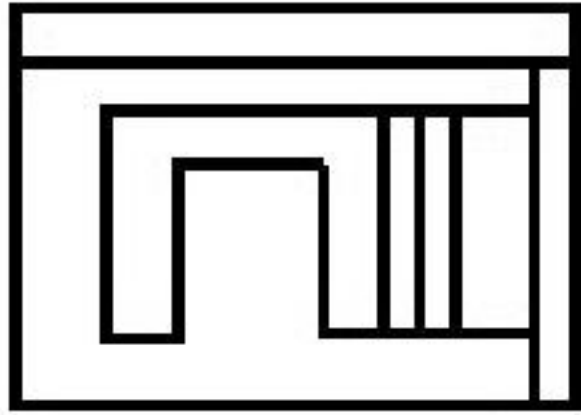
70819145446.



70819145447.



70819145448.

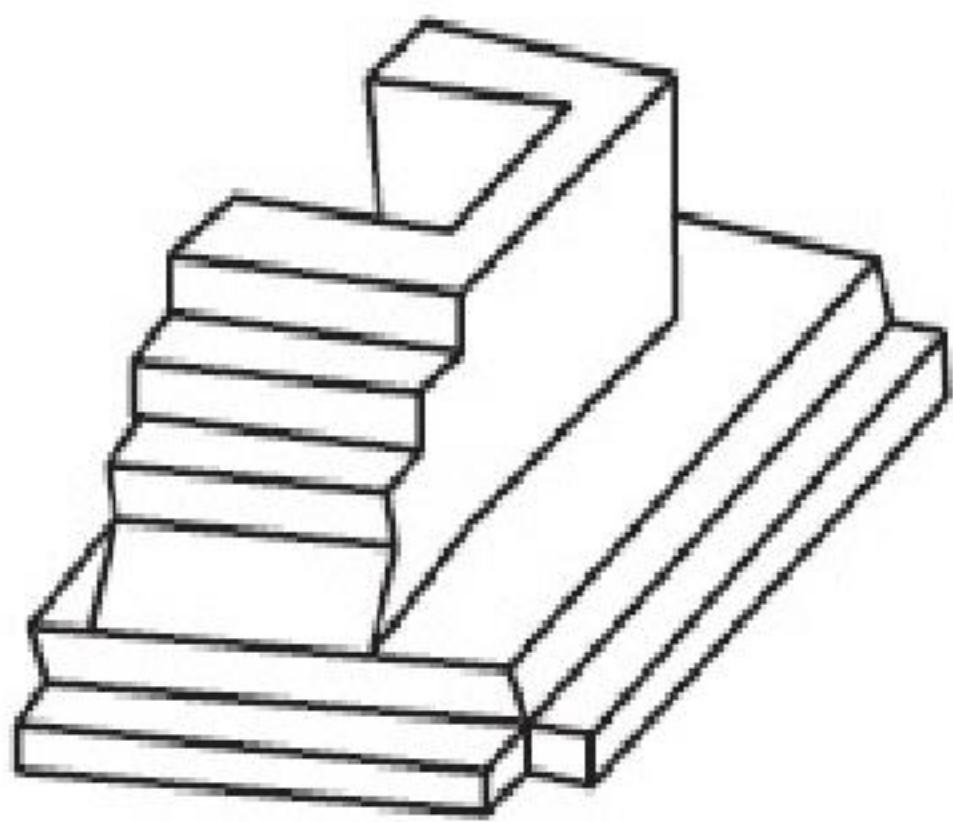


Question Number : 77 Question Id : 70819113718 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

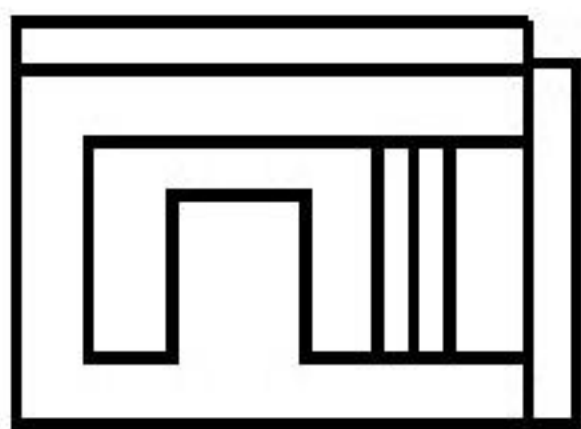
Correct Marks : 4 Wrong Marks : 1

3D आकृति में एक वस्तु के एक दृश्य को दिखाया गया है। इसका सही ऊपरी दृश्य, उत्तर आकृतियों में से पहचानिए।

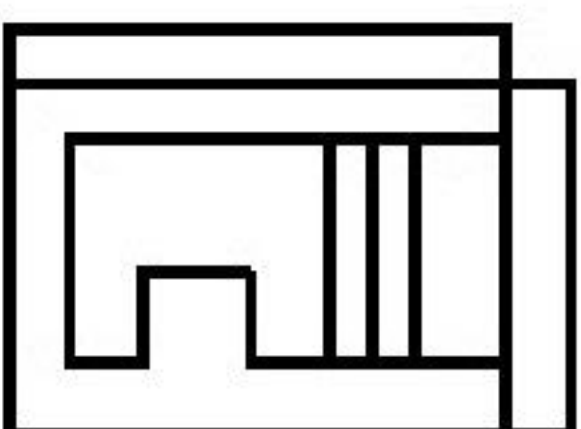


Options :

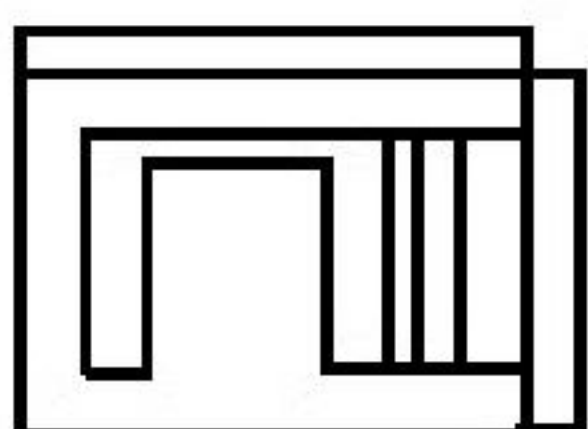
70819145445.



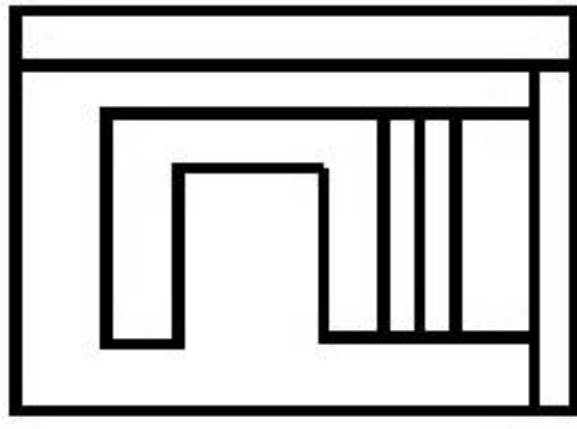
70819145446.



70819145447.



70819145448.

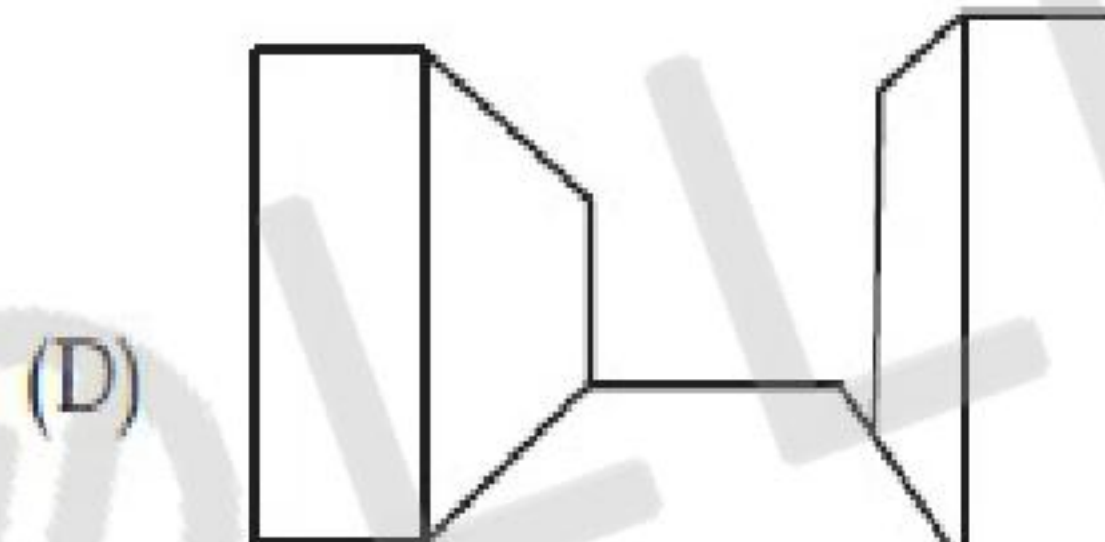
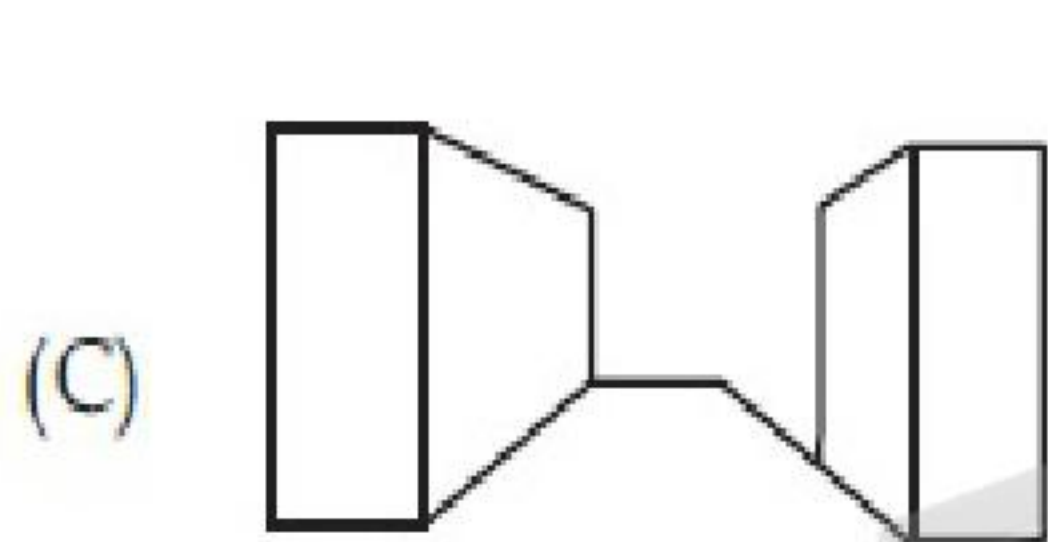
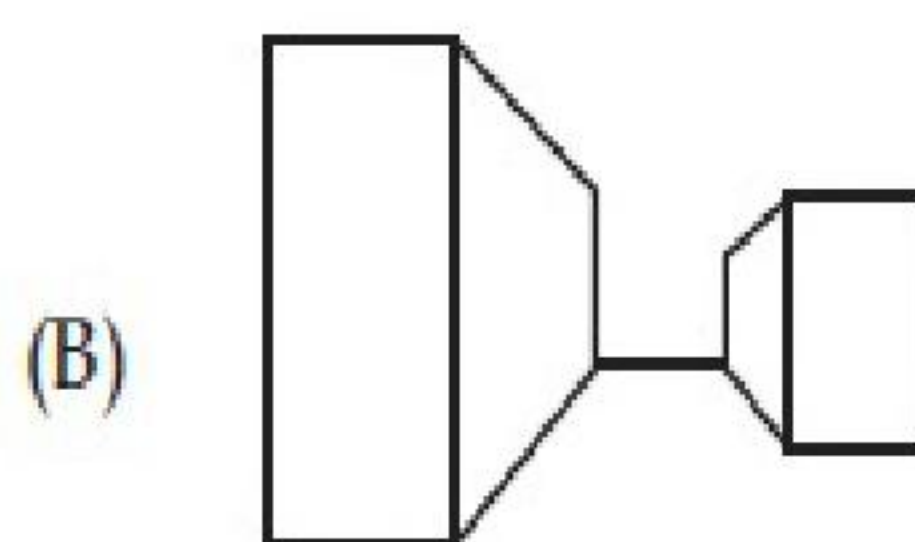
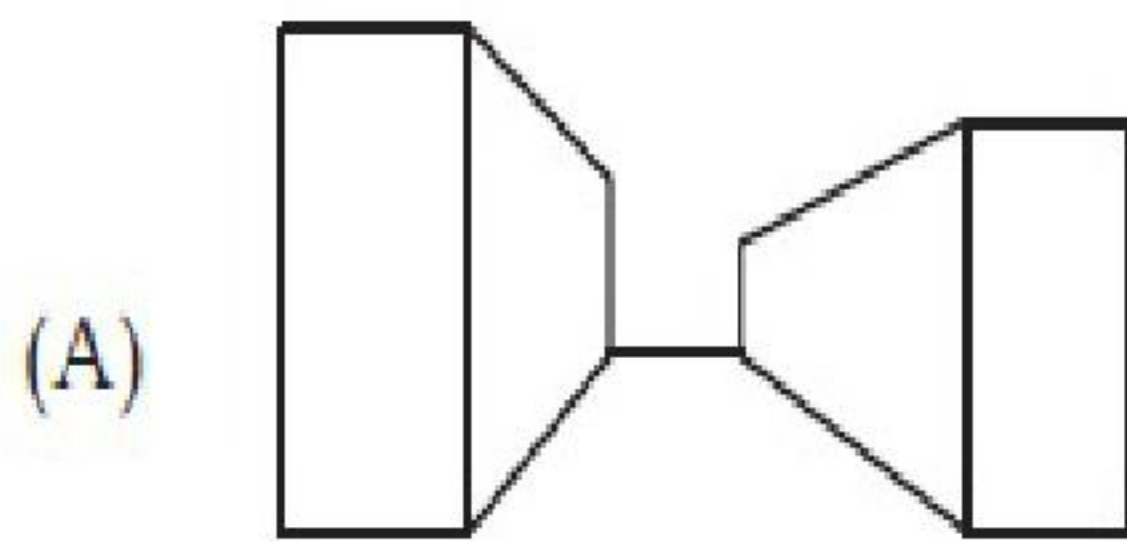


Question Number : 78 Question Id : 70819113719 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Identify the building compositions of having less visual tension amongst the following figures.



Options :

70819145449. (A) and (B)

70819145450. (B) and (C)

70819145451. (C) and (D)

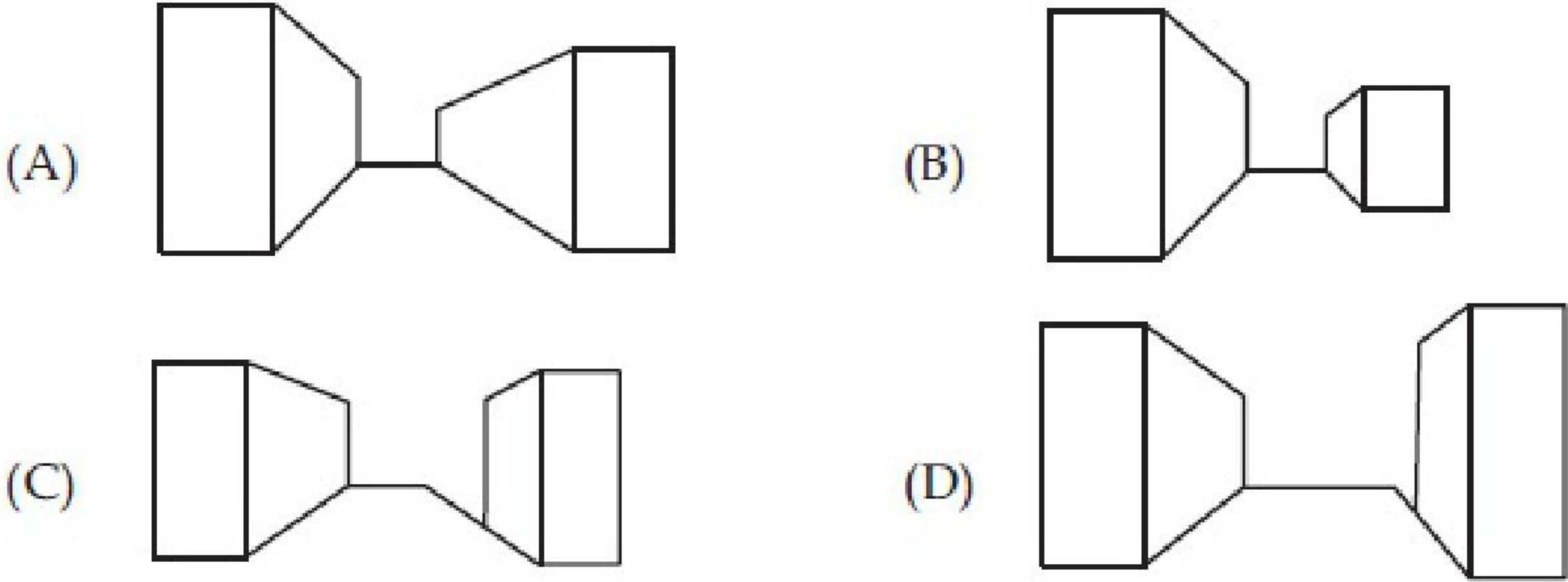
70819145452. (D) and (A)

Question Number : 78 Question Id : 70819113719 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

नीचे दी गई आकृतियों में से दृष्टि-संबंधी कम तनाव के भवन घटकों को पहचानिए।



Options :

70819145449. (A) और (B)

70819145450. (B) और (C)

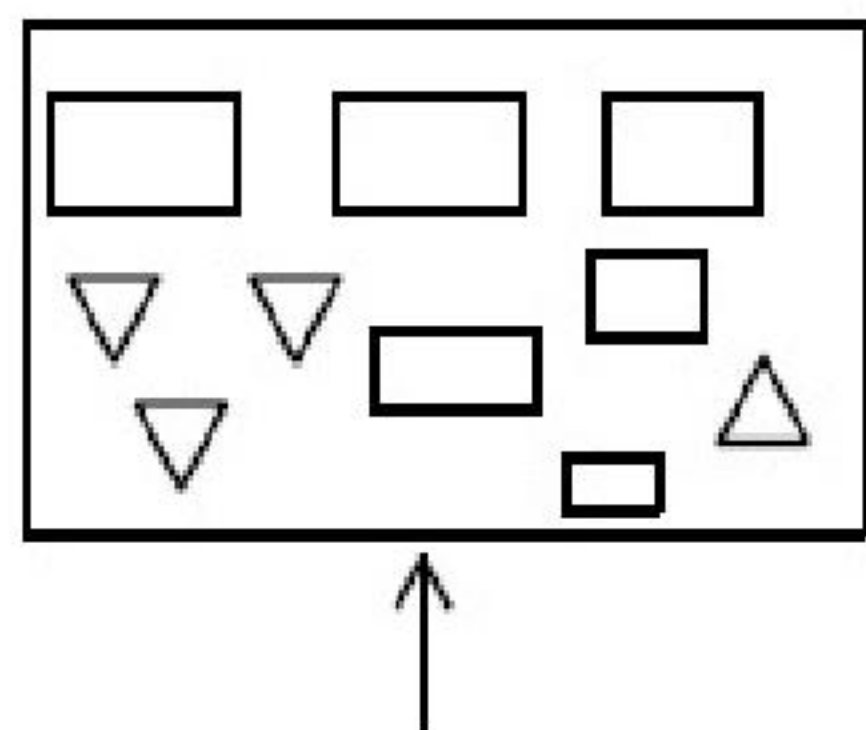
70819145451. (C) और (D)

70819145452. (D) और (A)

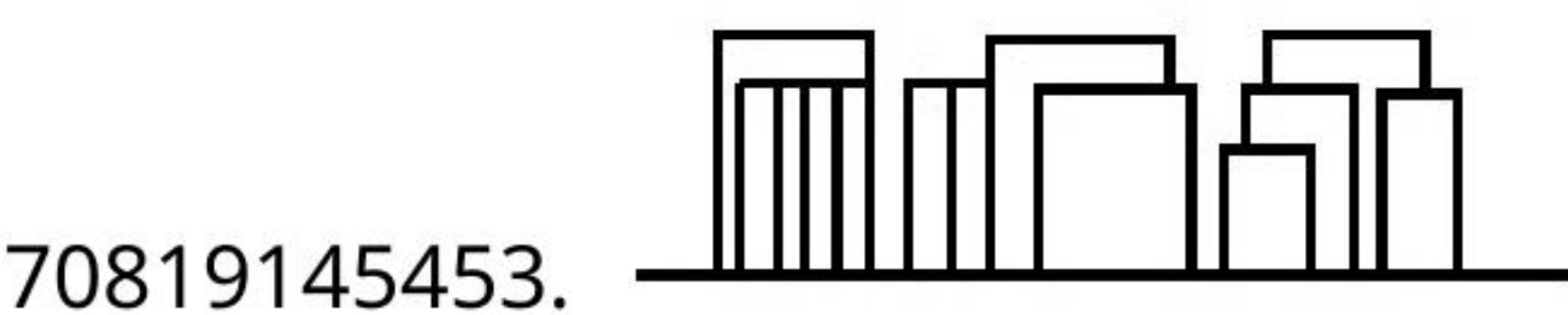
Question Number : 79 Question Id : 70819113720 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

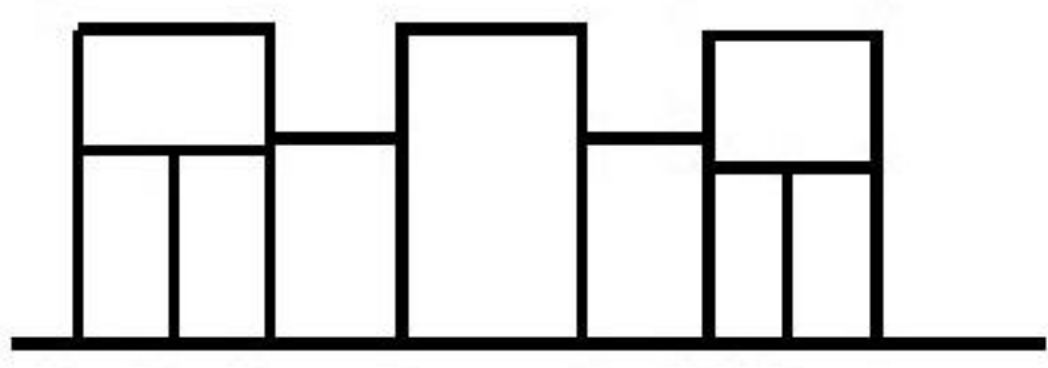
The problem figure shows the top view of an object. Identify the correct elevation amongst the answer figures looking in the direction of arrow.



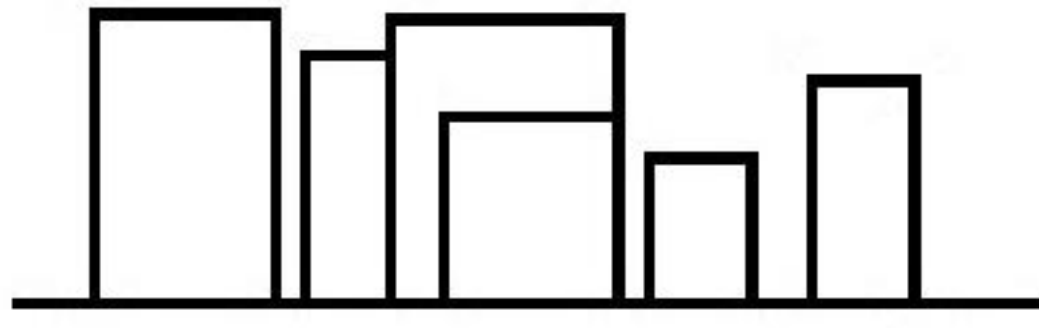
Options :



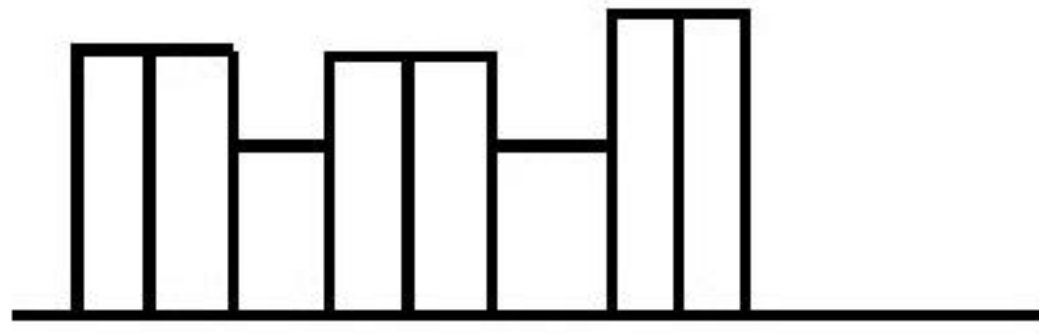
70819145454.



70819145455.



70819145456.

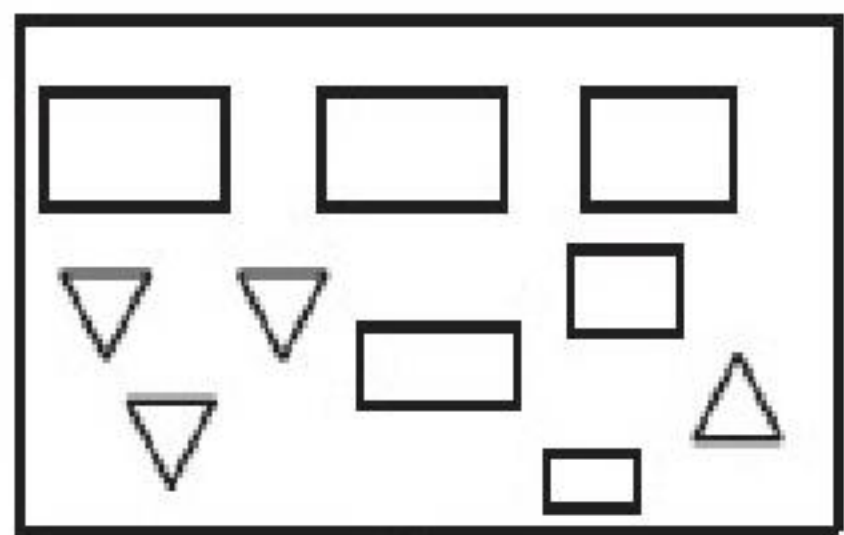


Question Number : 79 Question Id : 70819113720 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

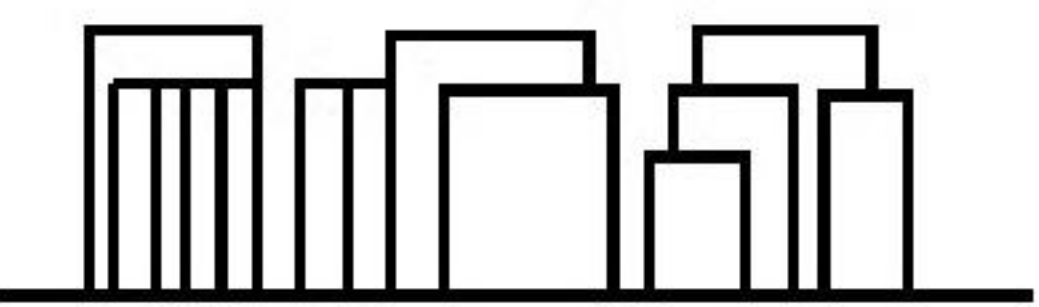
Correct Marks : 4 Wrong Marks : 1

प्रश्न आकृति में एक वस्तु के ऊपरी दृश्य को दिखाया गया है। तीर की दिशा में देखते हुए, उत्तर आकृतियों में से सही एलीवेशन (elevation) को पहचानिए।

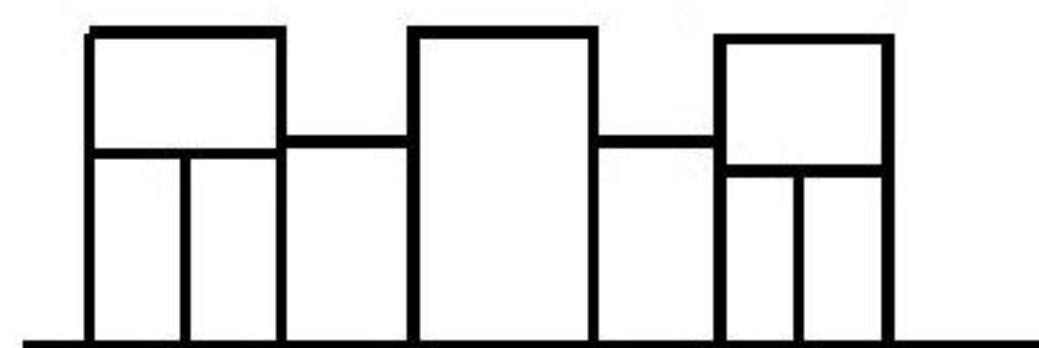


Options :

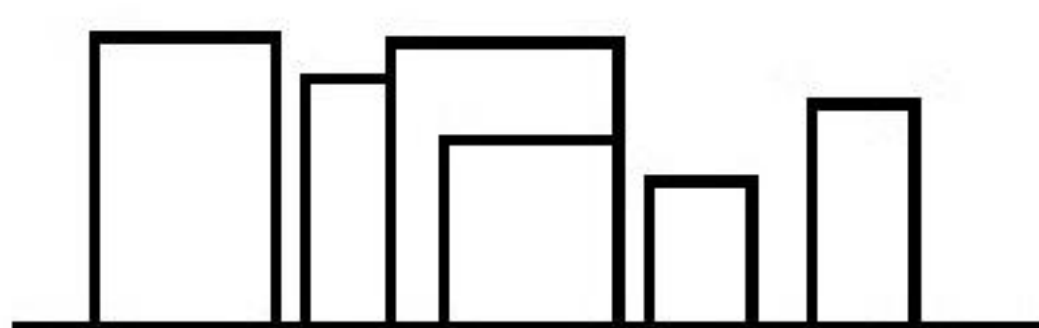
70819145453.



70819145454.



70819145455.



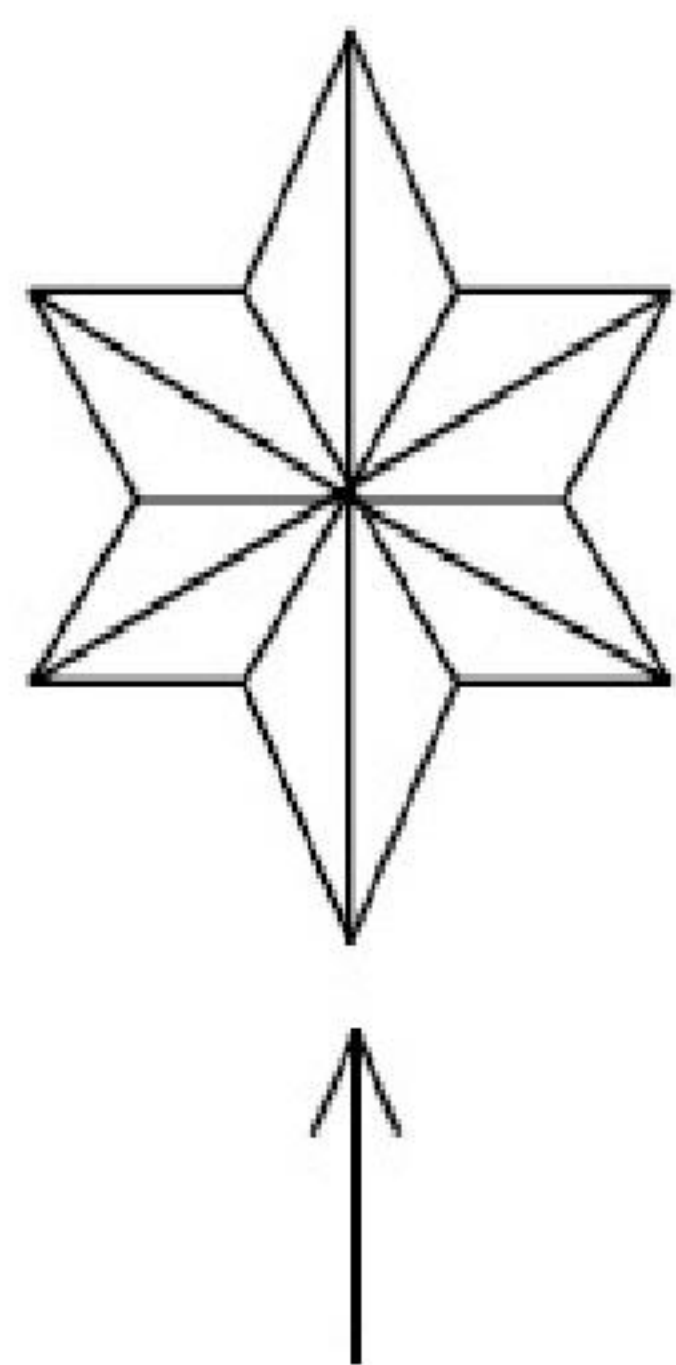
70819145456.



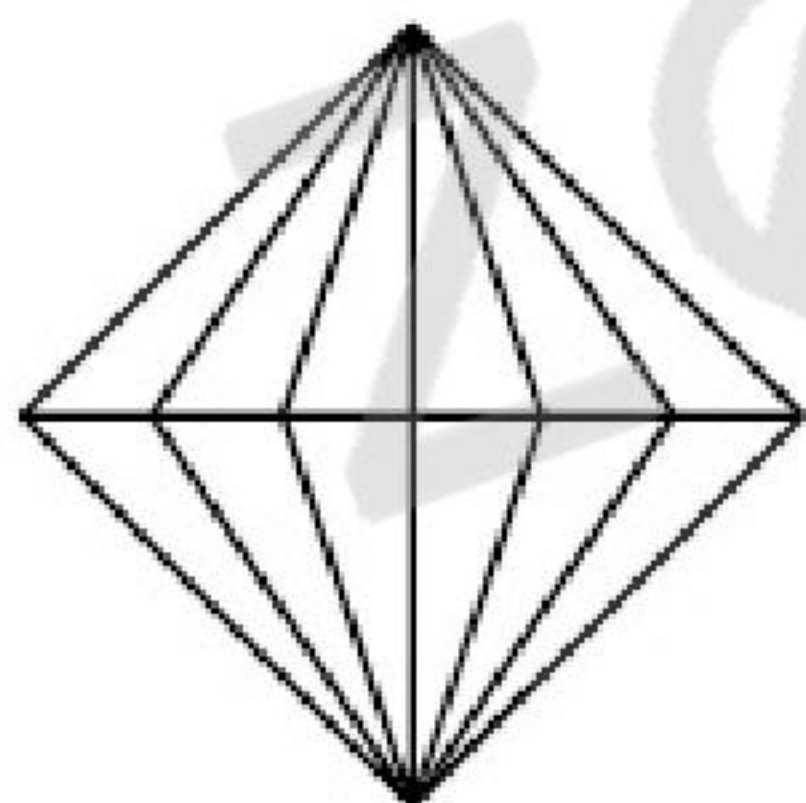
Question Number : 80 Question Id : 70819113721 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

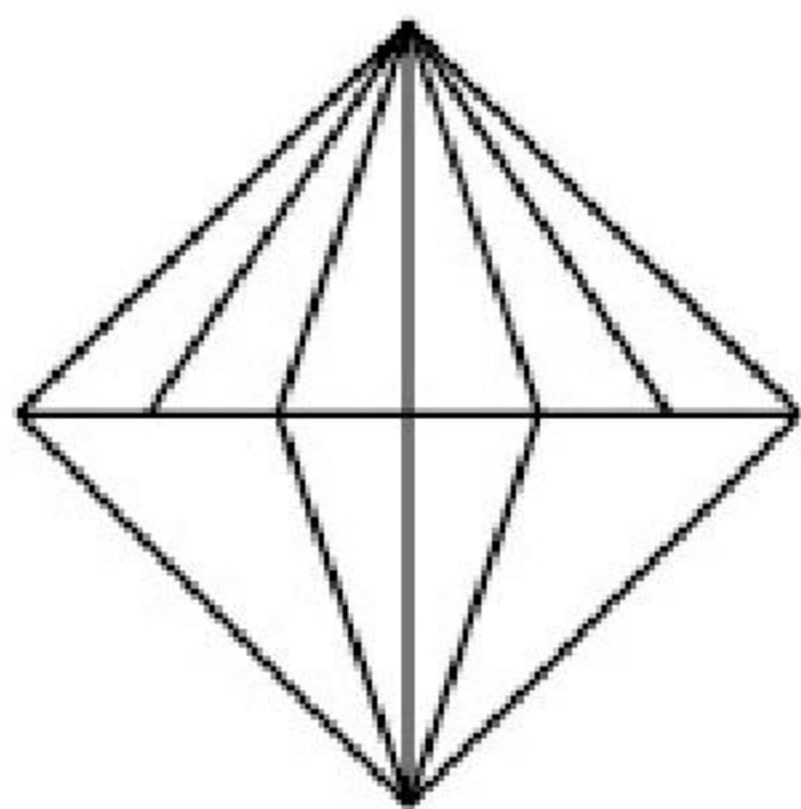
The problem figure shows the top view of an object. Identify the correct elevation amongst the answer figures looking in the direction of arrow.



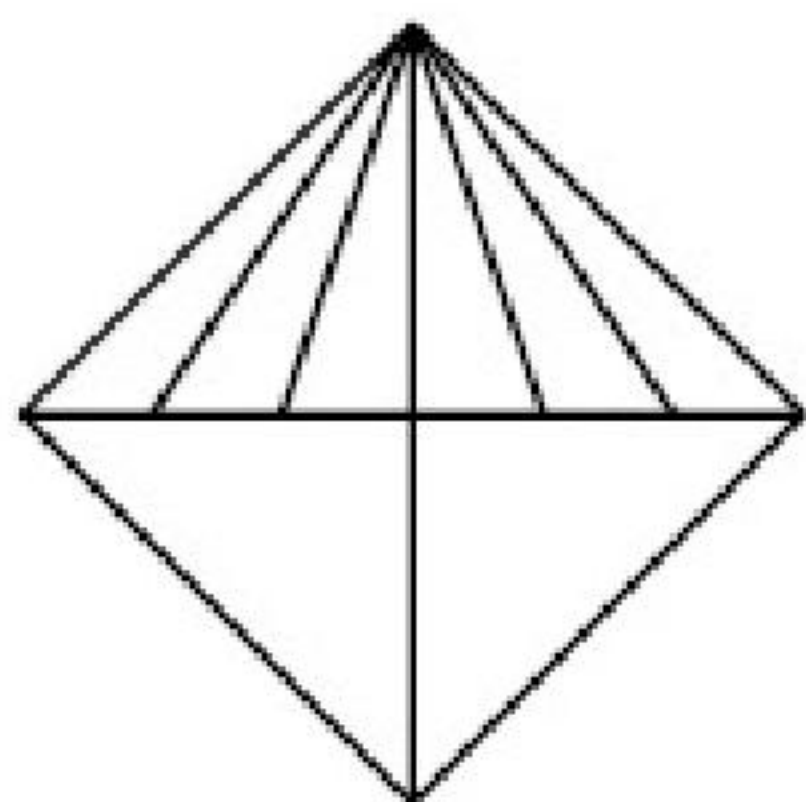
Options :



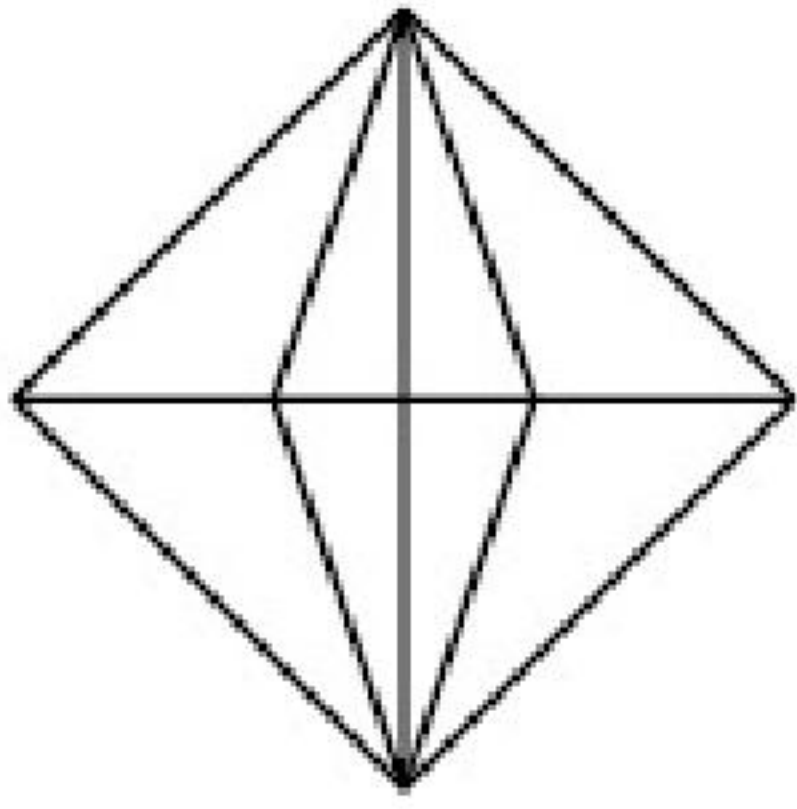
70819145457.



70819145458.



70819145459.



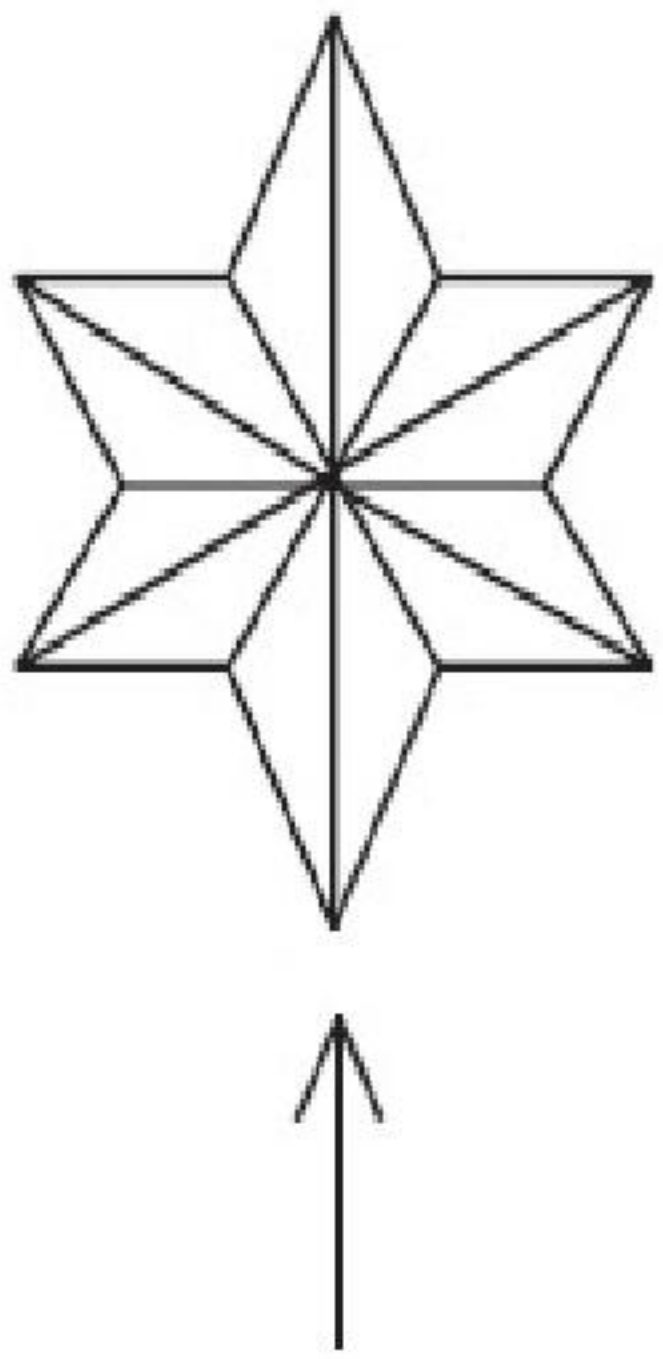
70819145460.

Question Number : 80 Question Id : 70819113721 Question Type : MCQ Option Shuffling : Yes

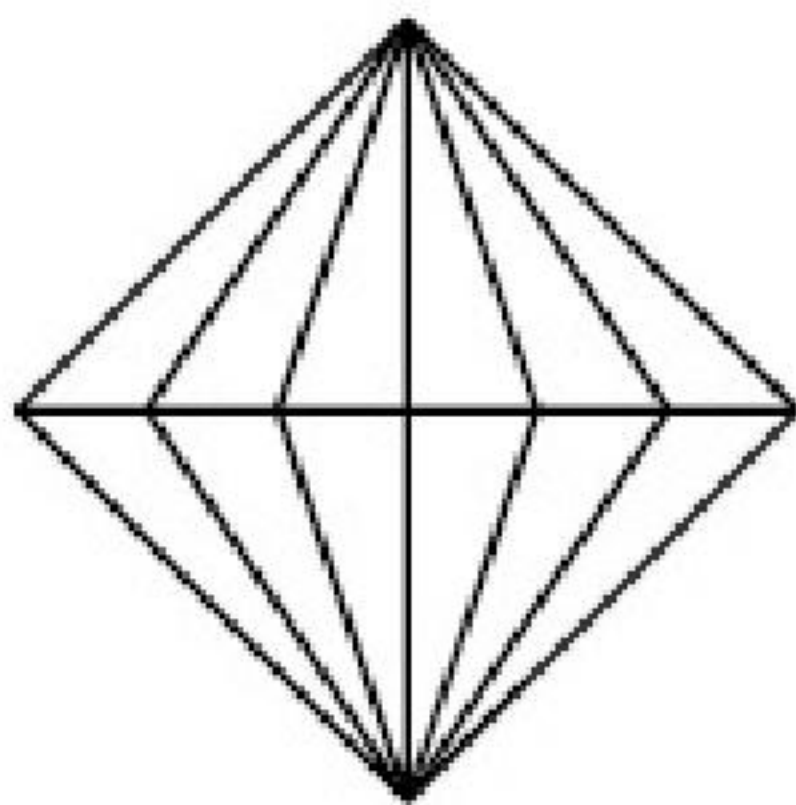
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

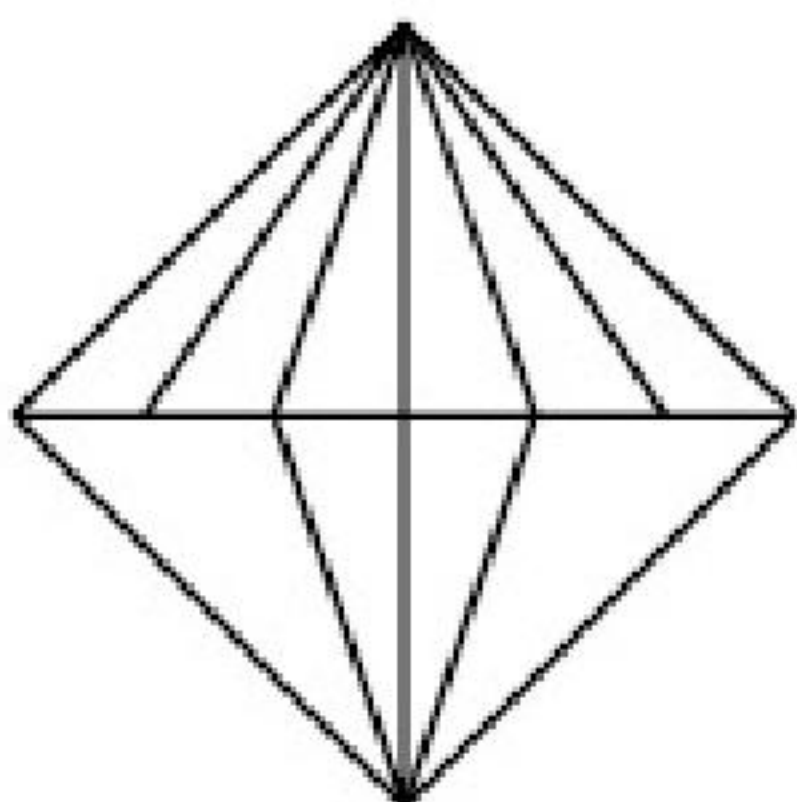
प्रश्न आकृति में एक वस्तु के ऊपरी दृश्य को दिखाया गया है। तीर की दिशा में देखते हुए, उत्तर आकृतियों में से सही एलीवेशन (elevation) को पहचानिए।



Options :

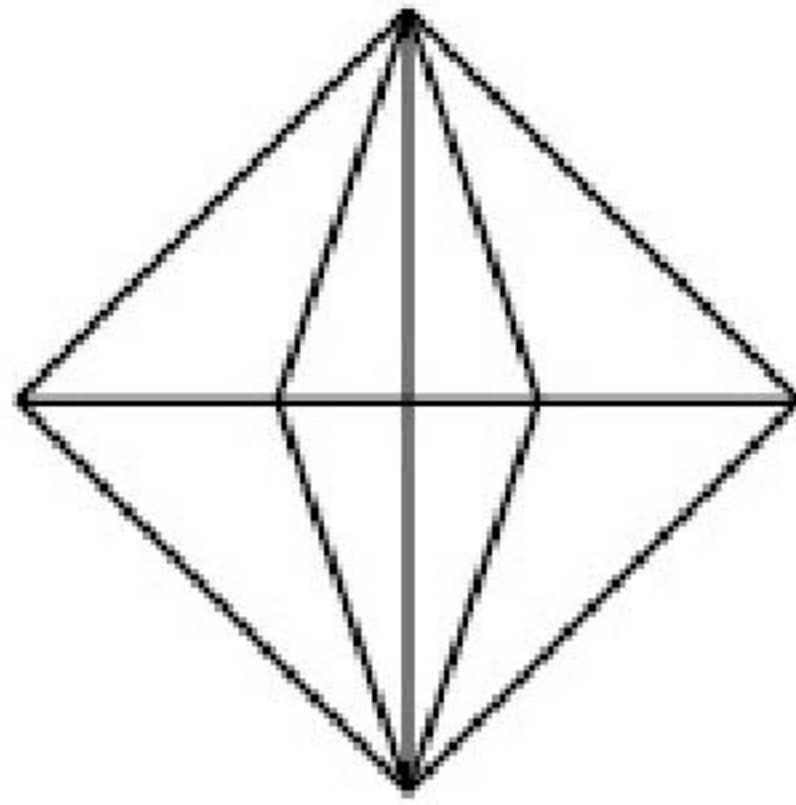
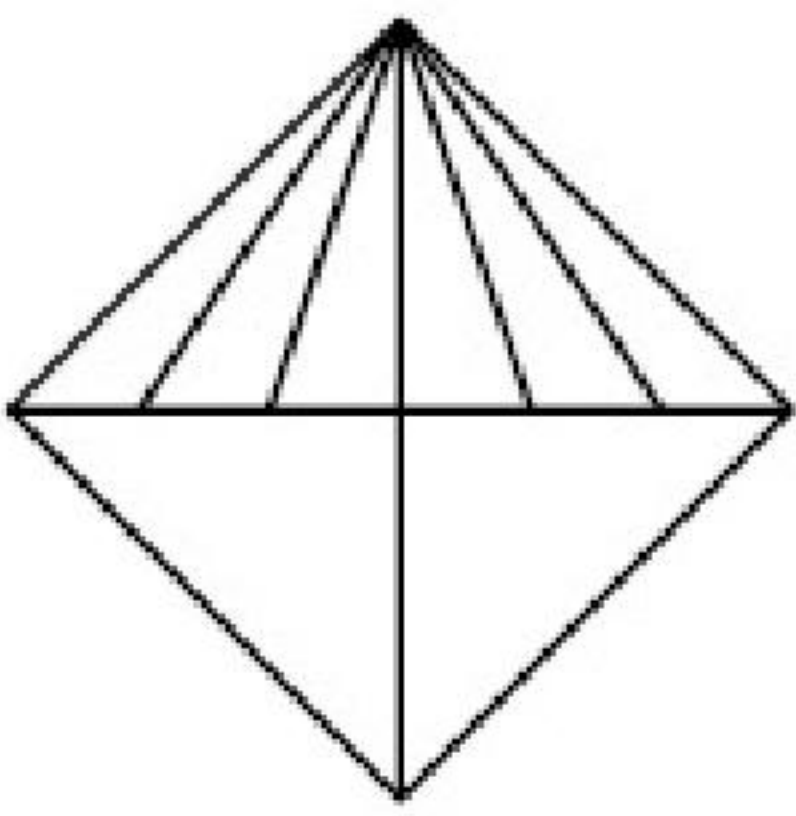


70819145457.



70819145458.

70819145459.



70819145460.

Planning

Section Id :	708191481
Section Number :	4
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	25
Number of Questions to be attempted :	25
Section Marks :	100
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	708191761
Question Shuffling Allowed :	Yes

Question Number : 81 Question Id : 70819113722 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No
Correct Marks : 4 Wrong Marks : 1

Which of these industries did not exist in London before the first world war ?

Options :

70819145461. Automobile
70819145462. Clothing and Textile
70819145463. Printing
70819145464. Iron and Steel

Question Number : 81 Question Id : 70819113722 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

प्रथम विश्व युद्ध से पहले, निम्न में से कौन-सा उद्योग लंदन में अस्तित्व में नहीं था ?

Options :

70819145461. वाहन
70819145462. वस्त्र एवं परिधान
70819145463. छपाई
70819145464. लौह एवं इस्पात

Question Number : 82 Question Id : 70819113723 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

A carbon footprint is the amount of _____ released into the atmosphere.

Options :

70819145465. Nitrogen

70819145466. Greenhouse gas

70819145467. Ozone

70819145468. Suspended Particulate Matter (SPM)

Question Number : 82 Question Id : 70819113723 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

कार्बन फुटप्रिंट _____ की मात्रा में, वायुमंडल में जारी किया जाता है।

Options :

70819145465. नाइट्रोजन

70819145466. ग्रीनहाउस गैस

70819145467. ओज़ोन

70819145468. सस्पेंडेड पार्टिकुलेट मैटर (एस.पी.एम.)

Question Number : 83 Question Id : 70819113724 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

- A. KodaiKanal
- B. Kullu
- C. Mount Abu
- D. Panchgani
- E. Pahalgam

Arrange the above hill stations in the correct sequence from south to north in India.

Choose the correct answer from the options given below :

Options :

70819145469. $E \rightarrow D \rightarrow B \rightarrow A \rightarrow C$

70819145470. $E \rightarrow B \rightarrow C \rightarrow D \rightarrow A$

70819145471. $C \rightarrow A \rightarrow B \rightarrow D \rightarrow E$

70819145472. $A \rightarrow D \rightarrow C \rightarrow B \rightarrow E$

Question Number : 83 Question Id : 70819113724 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

- A. कोड़ाईकनल
- B. कुलु
- C. माउंट आबू
- D. पंचगनी
- E. पहलगाम

ऊपर दिये गये पहाड़ी क्षेत्रों को दक्षिण दिशा से उत्तर दिशा की ओर सही क्रम में लिखिए।

नीचे दिए हुए विकल्पों में से सही विकल्प का चयन करें।

Options :

70819145469. $E \rightarrow D \rightarrow B \rightarrow A \rightarrow C$

70819145470. $E \rightarrow B \rightarrow C \rightarrow D \rightarrow A$

70819145471. $C \rightarrow A \rightarrow B \rightarrow D \rightarrow E$

70819145472. $A \rightarrow D \rightarrow C \rightarrow B \rightarrow E$

Question Number : 84 Question Id : 70819113725 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Planning Commission in India has been replaced by :

Options :

70819145473. Mo HUA

70819145474. NITI Aayog

70819145475. NIUA

70819145476. PFI

Question Number : 84 Question Id : 70819113725 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

भारत में योजना आयोग की जगह किसने ली है ?

Options :

70819145473. एम.ओ. एच.यू.ए. (Mo HUA)

70819145474. नीति आयोग

70819145475. एन.आई.यू.ए.

70819145476. पी.एफ.आई.

Question Number : 85 Question Id : 70819113726 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

When was the special Economic Zone's Act enacted in India ?

Options :

70819145477. 2005

70819145478. 2007

70819145479. 2009

70819145480. 2011

Question Number : 85 Question Id : 70819113726 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

“स्पेशल इकोनोमिक ज़ोन एक्ट” भारत में कब स्थापित हुआ था ?

Options :

70819145477. 2005

70819145478. 2007

70819145479. 2009

70819145480. 2011

Question Number : 86 Question Id : 70819113727 Question Type : MCQ Op ZOLLEGE.in

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

What is the full form of NHAI ? Choose the correct answer.

Options :

70819145481. National Horticulture Association of India.
70819145482. National Heritage Authority of India.
70819145483. National Hydroelectric Power Authority of India.
70819145484. National Highway Authority of India.

Question Number : 86 Question Id : 70819113727 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

एन.एच.ए.आई. का दीर्घरूप क्या है? सही उत्तर चुनिए।

Options :

70819145481. नेशनल होर्टीकल्चर एसोसिएशन ऑफ इण्डिया।
70819145482. नेशनल हेरिटेज ऑथोरिटी ऑफ इण्डिया।
70819145483. नेशनल हाइड्रोइलेक्ट्रिक पावर ऑथोरिटी ऑफ इण्डिया।
70819145484. नेशनल हाइवे ऑथोरिटी ऑफ इण्डिया।

Question Number : 87 Question Id : 70819113728 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

How many Sustainable Development Goals were adopted by the United Nations ?

Options :

70819145485. 15

70819145486. 16

70819145487. 17

70819145488. 18

Question Number : 87 Question Id : 70819113728 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

संयुक्त राष्ट्र संघ द्वारा कितने सतत विकास लक्ष्यों (Sustainable Development Goals) की घोषणा की गई है?

Options :

70819145485. 15

70819145486. 16

70819145487. 17

70819145488. 18

Question Number : 88 Question Id : 70819113729 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

In which year, the first industrial policy by Government of India was announced ?

Options :

70819145489. 1947

70819145490. 1948

70819145491. 1950

70819145492. 1949

**Question Number : 88 Question Id : 70819113729 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

भारतीय शासन की “प्रथम औद्योगिक नीति” की घोषणा किस वर्ष में की गई थी ?

Options :

70819145489. 1947

70819145490. 1948

70819145491. 1950

70819145492. 1949

**Question Number : 89 Question Id : 70819113730 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Planning of Barcelona city in Spain is known for its :

Options :

70819145493. superblocks

70819145494. radial pattern

70819145495. high rise development

70819145496. waterbased transport

Question Number : 89 Question Id : 70819113730 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

बार्सिलोना शहर जो कि स्पेन में उपस्थित है, की रचना किस लिये जानी जाती है ?

Options :

70819145493. सुपरब्लॉक

70819145494. रेडियल संरचना

70819145495. गगनचुंबी विकास

70819145496. जल परिवहन

Question Number : 90 Question Id : 70819113731 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of these is not an industrial city ?

Options :

70819145497. Durgapur

70819145498. Vishakhapatnam

70819145499. Bhubaneswar

70819145500. Bhilai

Question Number : 90 Question Id : 70819113731 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

निम्नलिखित में से कौन-सा एक औद्योगिक शहर नहीं है ?

Options :

70819145497. दुर्गापुर

70819145498. विशाखापट्टनम

70819145499. भुवनेश्वर

70819145500. भिलाई

Question Number : 91 Question Id : 70819113732 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of these schemes / programmes by Government of India is linked to heritage cities ?

Options :

70819145501. AMRUT

70819145502. Make in India

70819145503. HRIDAY

70819145504. UDAY

Question Number : 91 Question Id : 70819113732 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

निम्नलिखित में से भारत सरकार की कौन-सी योजना “पारंपरिक शहर” से जुड़ी हुई है ?

Options :

70819145501. अमृत (ए.एम्.आर.यु.टी.)

70819145502. मेक इन इण्डिया

70819145503. हृदय (एच.आर.आय.डी.ए.वाय.)

70819145504. उदय (यु.डी.ए.वाय.)

Question Number : 92 Question Id : 70819113733 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which one of the following south Indian states has the highest ground water utilization (in percent) of its total groundwater potential ?

Options :

70819145505. Tamil Nadu

70819145506. Karnataka

70819145507. Andhra Pradesh

70819145508. Kerala

Question Number : 92 Question Id : 70819113733 Question Type : MCQ Op

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

निम्नलिखित में से कौन-से दक्षिण भारतीय राज्य में, कुल भूमिगत जल क्षमता के अनुसार सबसे अधिक भूमिगत जल की खपत है (प्रतिशत में) ?

Options :

70819145505. तमिलनाडु

70819145506. कर्नाटक

70819145507. आंध्रप्रदेश

70819145508. केरल

Question Number : 93 Question Id : 70819113734 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Survey of India was established in :

Options :

70819145509. 1886

70819145510. 1876

70819145511. 1866

70819145512. 1896

Question Number : 93 Question Id : 70819113734 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

‘ भारतीय सर्वेक्षण विभाग ’ की स्थापना कब हुई थी ?

Options :

70819145509. 1886

70819145510. 1876

70819145511. 1866

70819145512. 1896

Question Number : 94 Question Id : 70819113735 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

As per 73rd amendment act (73rd CAA) 1992 first time one third (1/3) reservation for women was provided in which of the following ?

Options :

70819145513. Lok Sabha

70819145514. State Legislative Assembly

70819145515. Cabinets

70819145516. Panchayati Raj bodies

Question Number : 94 Question Id : 70819113735 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

73rd अमेंडमेंट ऐक्ट (73rd CAA) 1992 नुसार सर्वप्रथम एक तृतीयांश महिलाओं के लिये आरक्षण निम्नलिखित में से किसमे दिया गया ?

Options :

70819145513. लोकसभा में

70819145514. विधान सभा

70819145515. केबिनेट

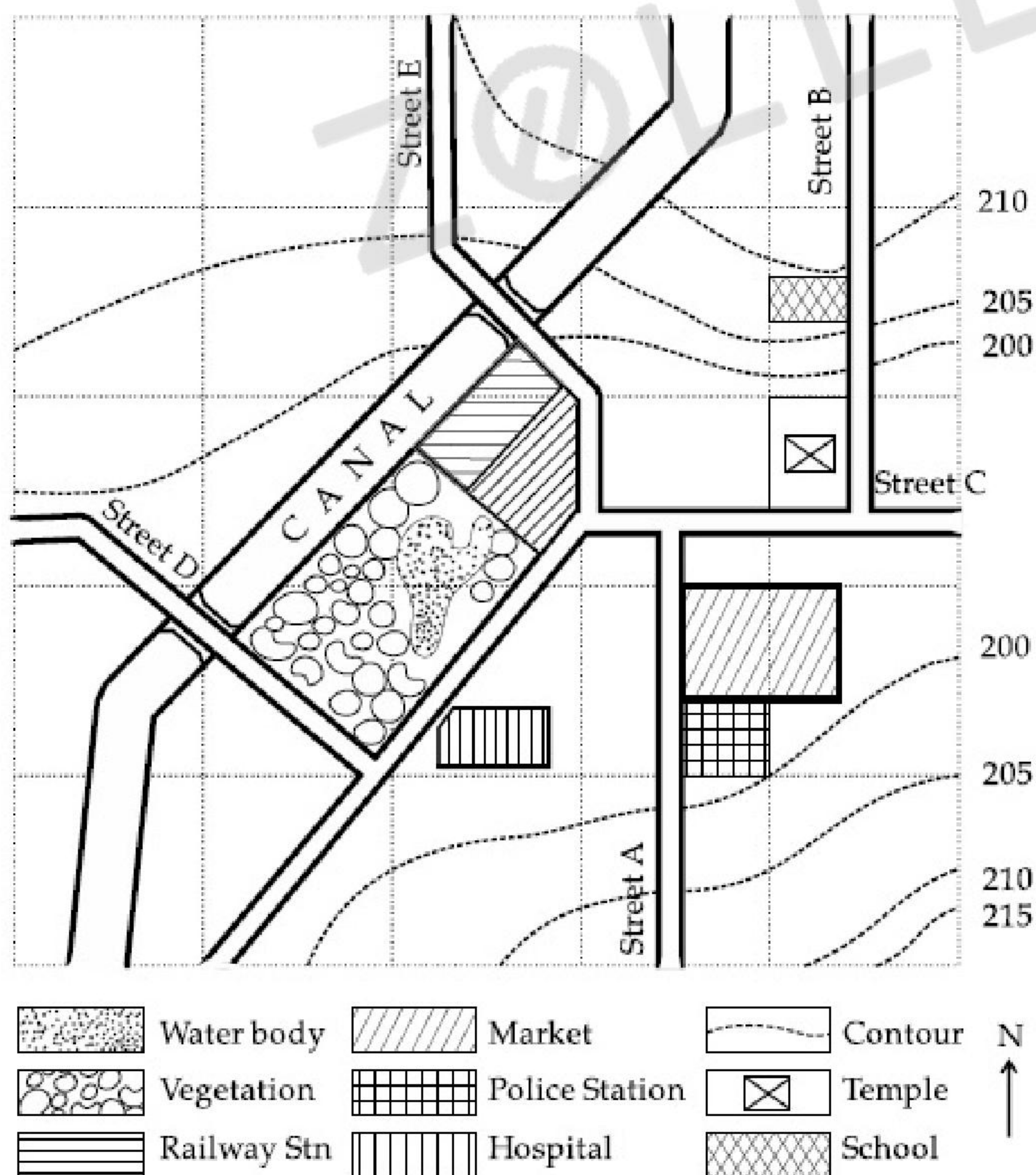
70819145516. पंचायती राज

Question Number : 95 Question Id : 70819113736 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Map Reading.



With reference to the diagram, choose the correct statement.

Options :

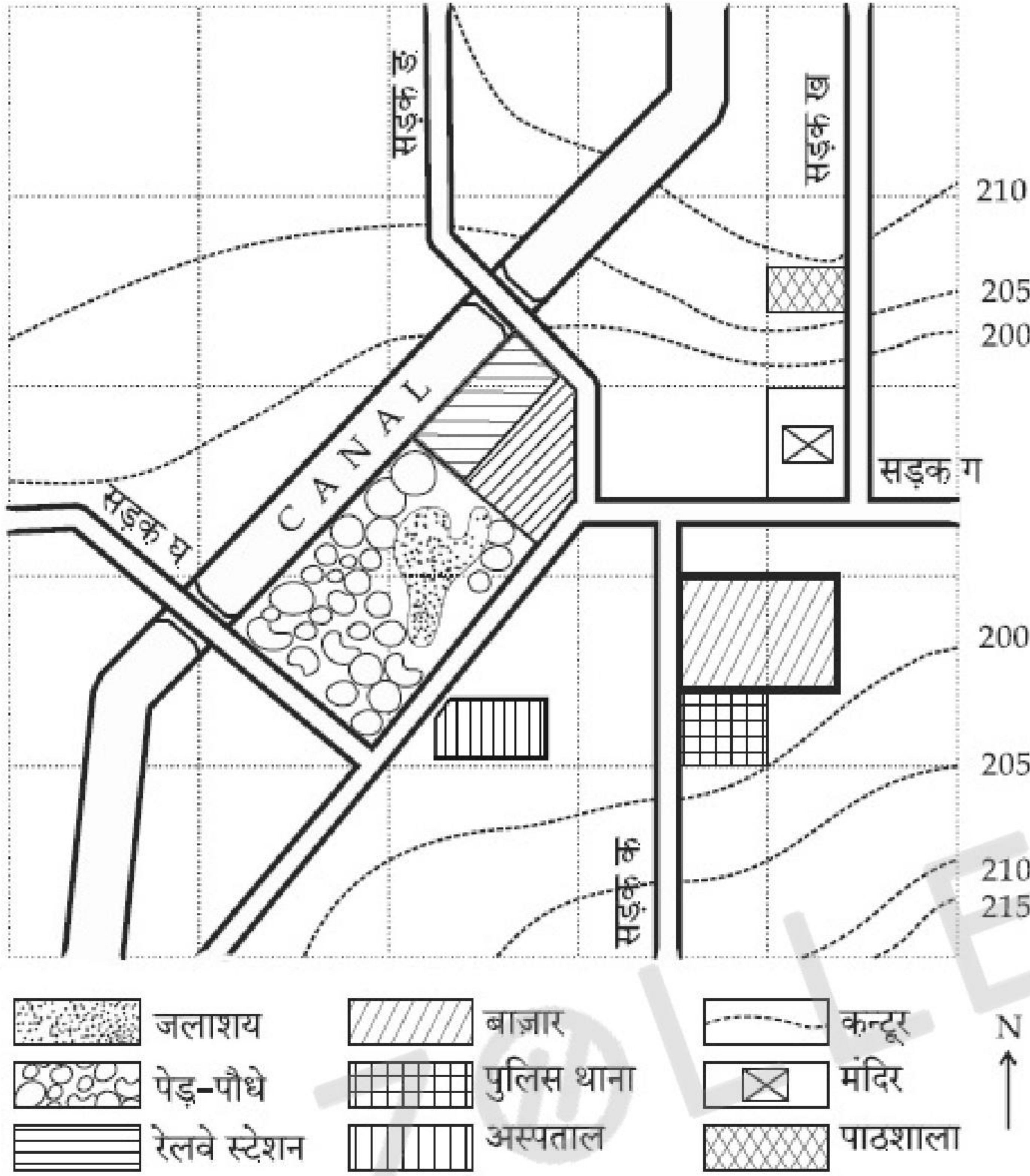
70819145517. Slope of land on which school is located is flatter than the slope of land on which hospital is located.
70819145518. Slope of land on which police station is located is steeper than the slope of land on which school is located.
70819145519. Slope of land on which school is located is steeper than the slope of land on which temple is located.
70819145520. Slope of land on which school is located is the same as the slope of land on which temple is located.

Question Number : 95 Question Id : 70819113736 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

नकाशावाचन (मॅप रीडिंग)



दिये हुए चित्र को देखते हुए निम्नलिखित में से सही वाक्य चुनिए।

Options :

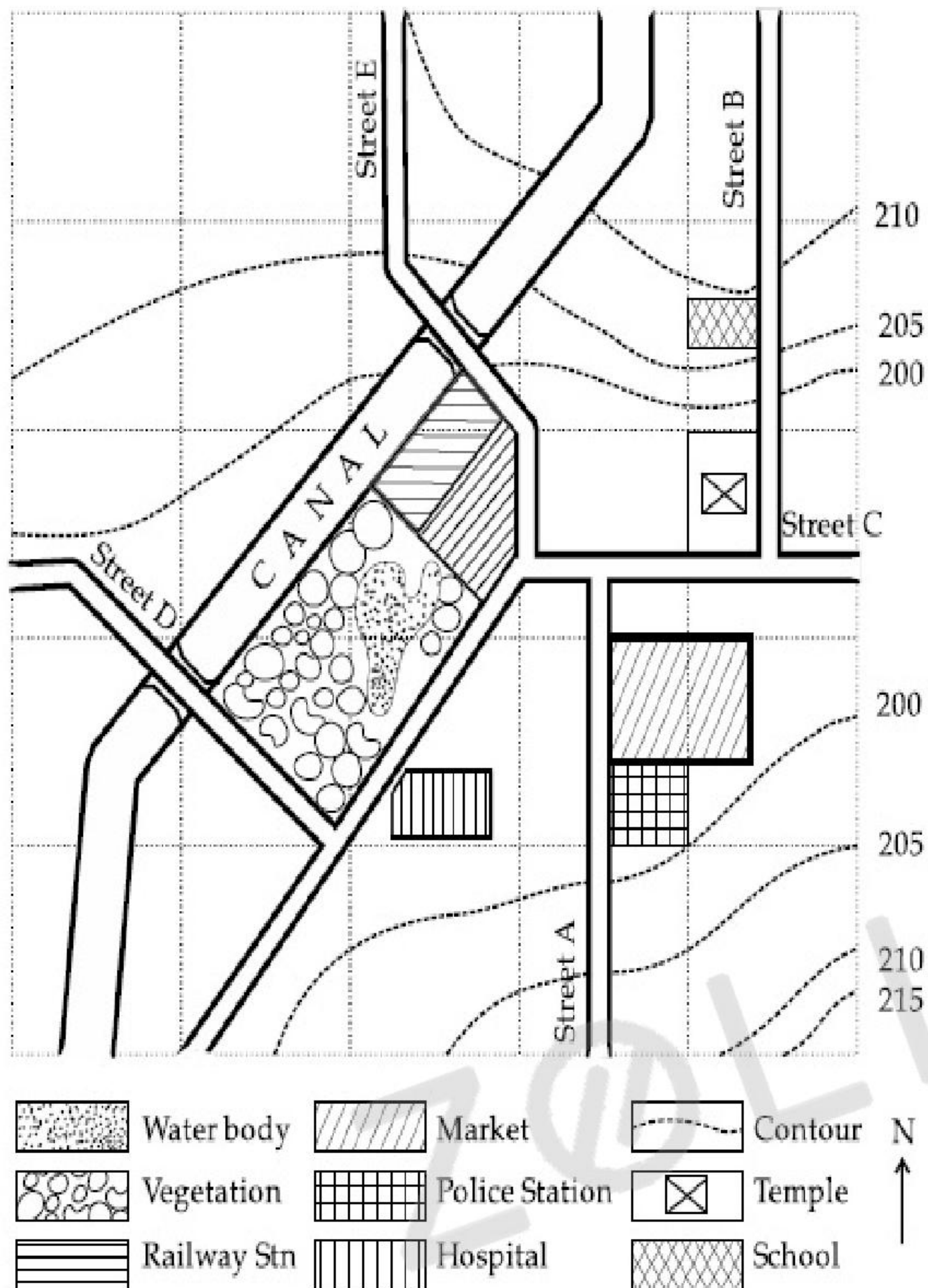
70819145517. उस जमीन का ढ़लान जिस पर स्कूल स्थित है, समतल है उस जमीन की तुलना में जिस पर अस्पताल स्थित है।
70819145518. जमीन जिस पर पुलिस स्टेशन है का ढ़लान तीव्र है, उस जमीन की तुलना में जिस पर स्कूल स्थित है।
70819145519. जमीन जिस पर स्कूल स्थित है की ढ़लान तीव्र है, उस जमीन की तुलना में जिस पर मन्दिर स्थित है।
70819145520. जमीन जिस पर स्कूल स्थित है का ढ़लान एवं जमीन जिस पर मन्दिर स्थित है का ढ़लान एक जैसे है।

Question Number : 96 Question Id : 70819113737 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Map Reading.



In the given diagram, for a person to travel from railway station to temple, one will have to move in _____ direction.

Options :

70819145521. North

70819145522. North - East

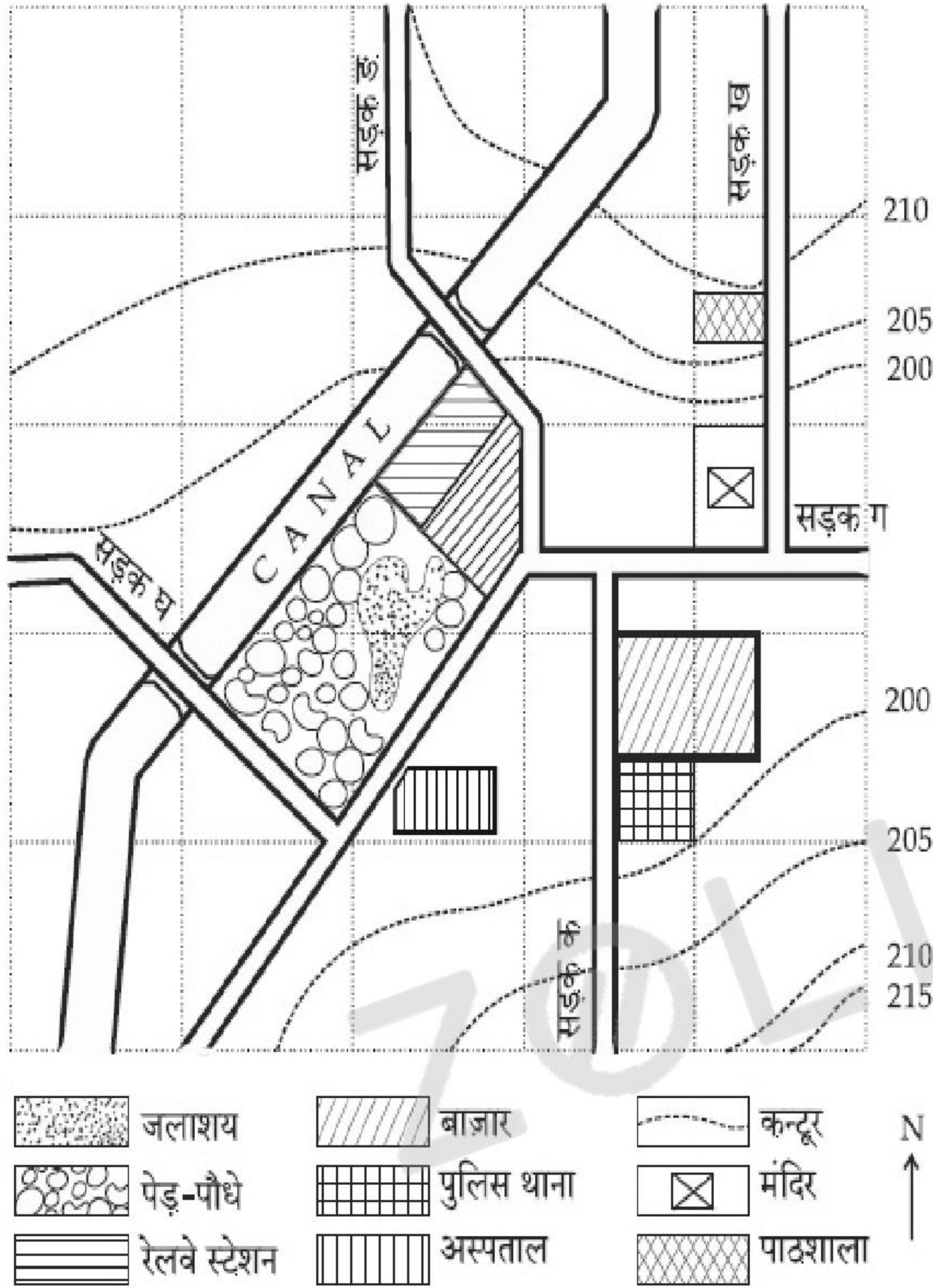
70819145523. South - West

70819145524. East

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

नकाशावाचन (मैप रीडिंग)



दिये गए चित्र के अनुसार, एक व्यक्ति को रेलवे स्टेशन से मंदिर की ओर जाने के लिये किस दिशा में चलना होगा ?

Options :

70819145521. उत्तर दिशा

70819145522. उत्तर-पूर्वी

70819145523. दक्षिण-पश्चिम

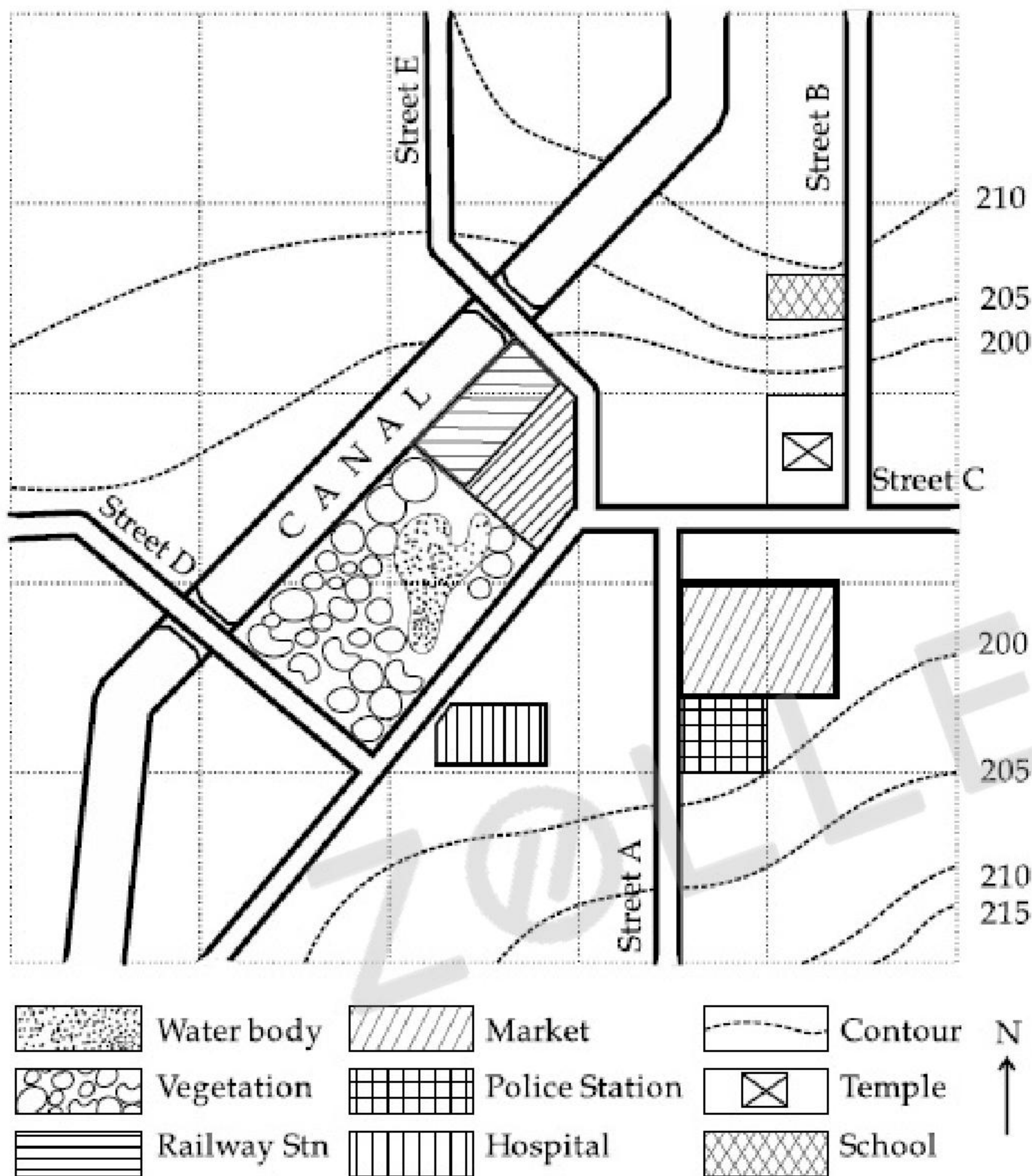
70819145524. पूरब

Question Number : 97 Question Id : 70819113738 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Map Reading.



In the given diagram, water body is located at a level :

Options :

70819145525. 5 m higher than police station.

70819145526. 5 m higher than school.

70819145527. same level as police station.

70819145528. same level as school.

Question Number : 97 Question Id : 70819113738 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

नकाशावाचन (मैप रीडिंग)



दिये गये नकाशा में जलाशय/तालाब कौनसे स्तर पर है ?

Options :

70819145525. पुलिस थाने से 5 मी. ऊपर

70819145526. पाठशाला से 5 मी. ऊपर

70819145527. पुलिस थाने के स्तर पर

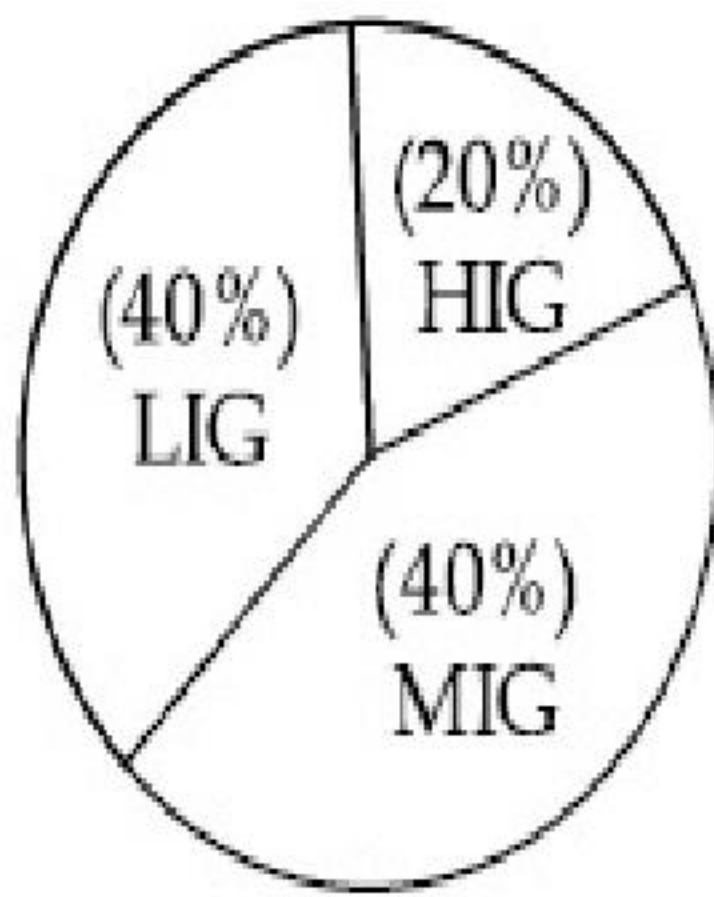
70819145528. पाठशाला के स्तर पर

Question Number : 98 Question Id : 70819113739 Question Type : MCQ Option Shuffling : Yes

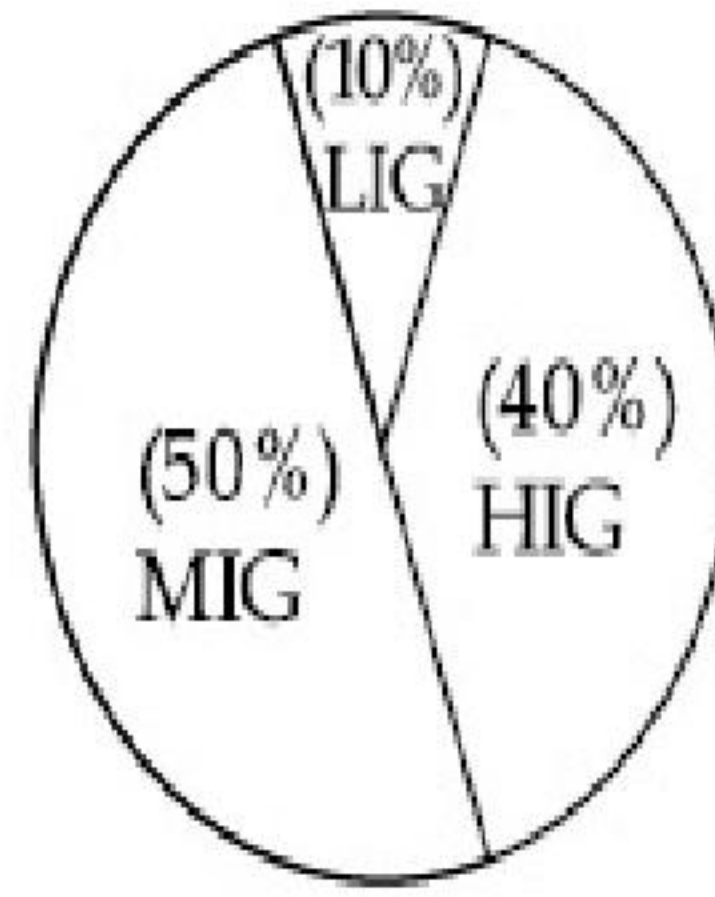
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The following pie-charts show the distribution of students enrolled in higher secondary and in college education, with respect to the household income of their families.



Higher Secondary Education



College Education

The ratio between the number of students from LIG household category studying at higher secondary to those in college is :

Options :

70819145529. 4 : 1

70819145530. 1 : 5

70819145531. 6 : 1

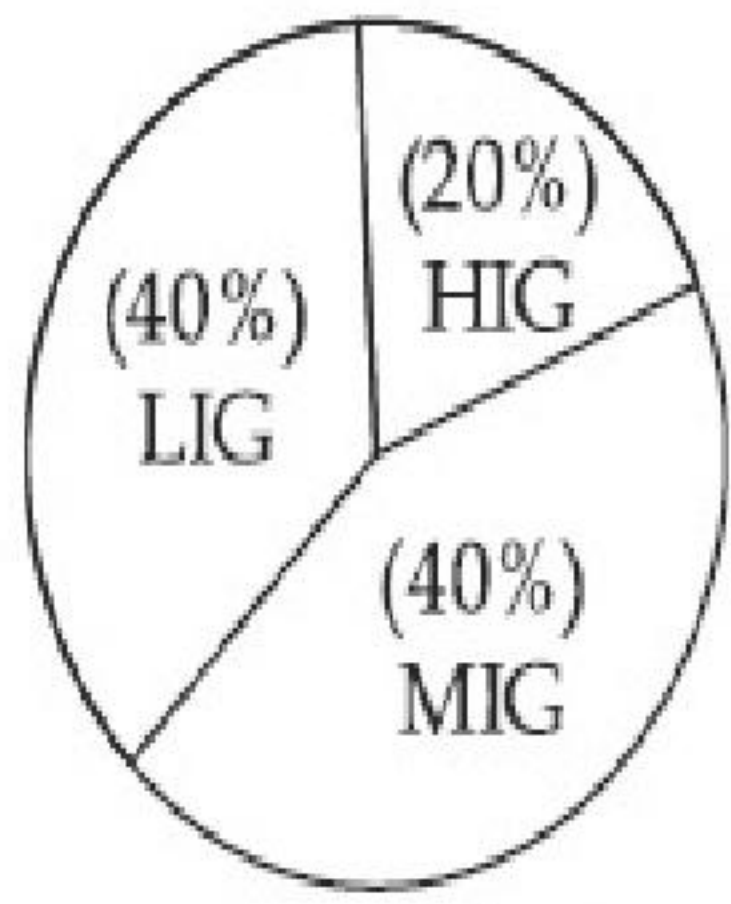
70819145532. 1 : 4

Question Number : 98 Question Id : 70819113739 Question Type : MCQ Option Shuffling : Yes

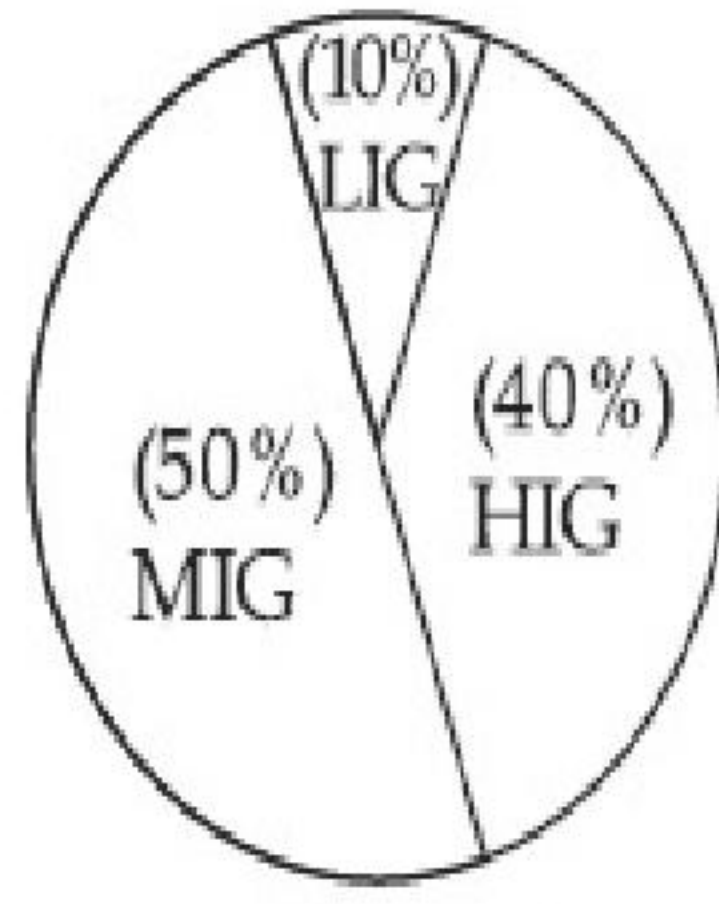
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

निम्नलिखित पाई-चार्ट उच्चतर माध्यमिक और कॉलेज शिक्षा में, नामांकित छात्रों को उनके परिवारों की आय के संबंध में, वितरण को दर्शाता है।



उच्चतर माध्यमिक शिक्षा



कॉलेज शिक्षा

निम्न आय (LIG) वर्ग से उच्चतर माध्यमिक में तथा कॉलेज में पढ़ने वाले छात्रों की संख्या का अनुपात है :

Options :

70819145529. 4 : 1

70819145530. 1 : 5

70819145531. 6 : 1

70819145532. 1 : 4

Question Number : 99 Question Id : 70819113740 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The surface area of earth is 510 million km². The land area is thirty percent of total surface. Urban land is three percent of total land surface. World population is 7.8 billion and fifty five percent is urban population. Find the closest correct answer.

Options :

70819145533. The density of population in urban area is 1000 persons/sq.km.

70819145534. The density of population in urban area is 849 persons/sq.km.

70819145535. The density of population in urban area is 4290 persons/sq.km.

70819145536.

The density of population in urban area is 7800 persons/sq.km.

Question Number : 99 Question Id : 70819113740 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

भूमि का सतही क्षेत्रफल 510 मिलियन कि.मी.² है। जिसका 30 प्रतिशत (30%) जमीन क्षेत्रफल एवं 3 प्रतिशत (3%) शहरी जमीन है। विश्व जनसंख्या 7.8 बिलियन एवं 55% शहरी जनसंख्या है। नजदिकी सही उत्तर चुनिए :

Options :

70819145533. शहरी क्षेत्र में जनसंख्या का घनत्व 1000 व्यक्ति/कि.मी.² है।

70819145534. शहरी क्षेत्र में जनसंख्या का घनत्व 849 व्यक्ति/कि.मी.² है।

70819145535. शहरी क्षेत्र में जनसंख्या का घनत्व 4290/कि.मी.² है।

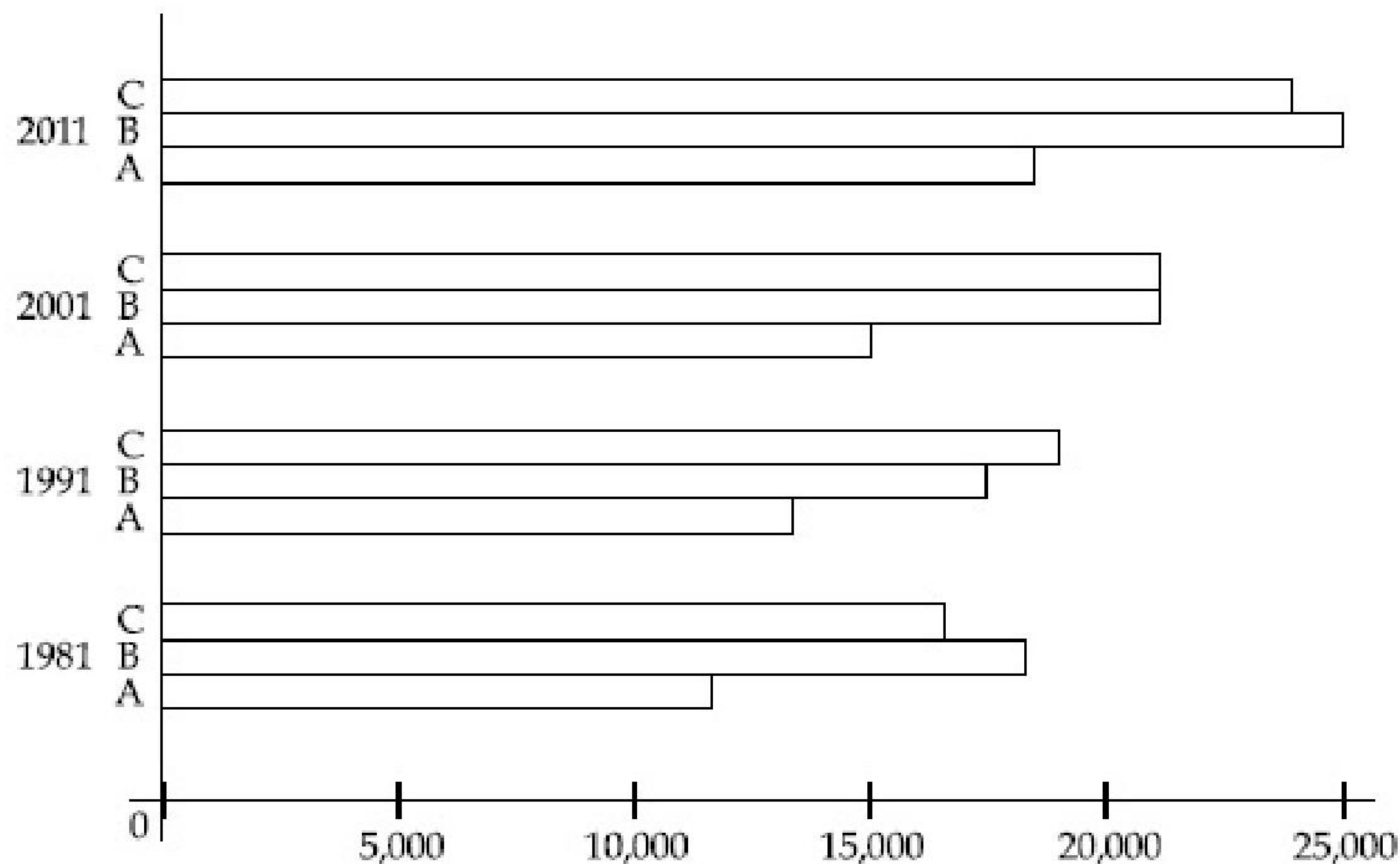
70819145536. शहरी क्षेत्र में जनसंख्या का घनत्व 7800 व्यक्ति/कि.मी.² है।

Question Number : 100 Question Id : 70819113741 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Population of city A, B and C from 1981-2011.



Choose the correct statement :

Options :

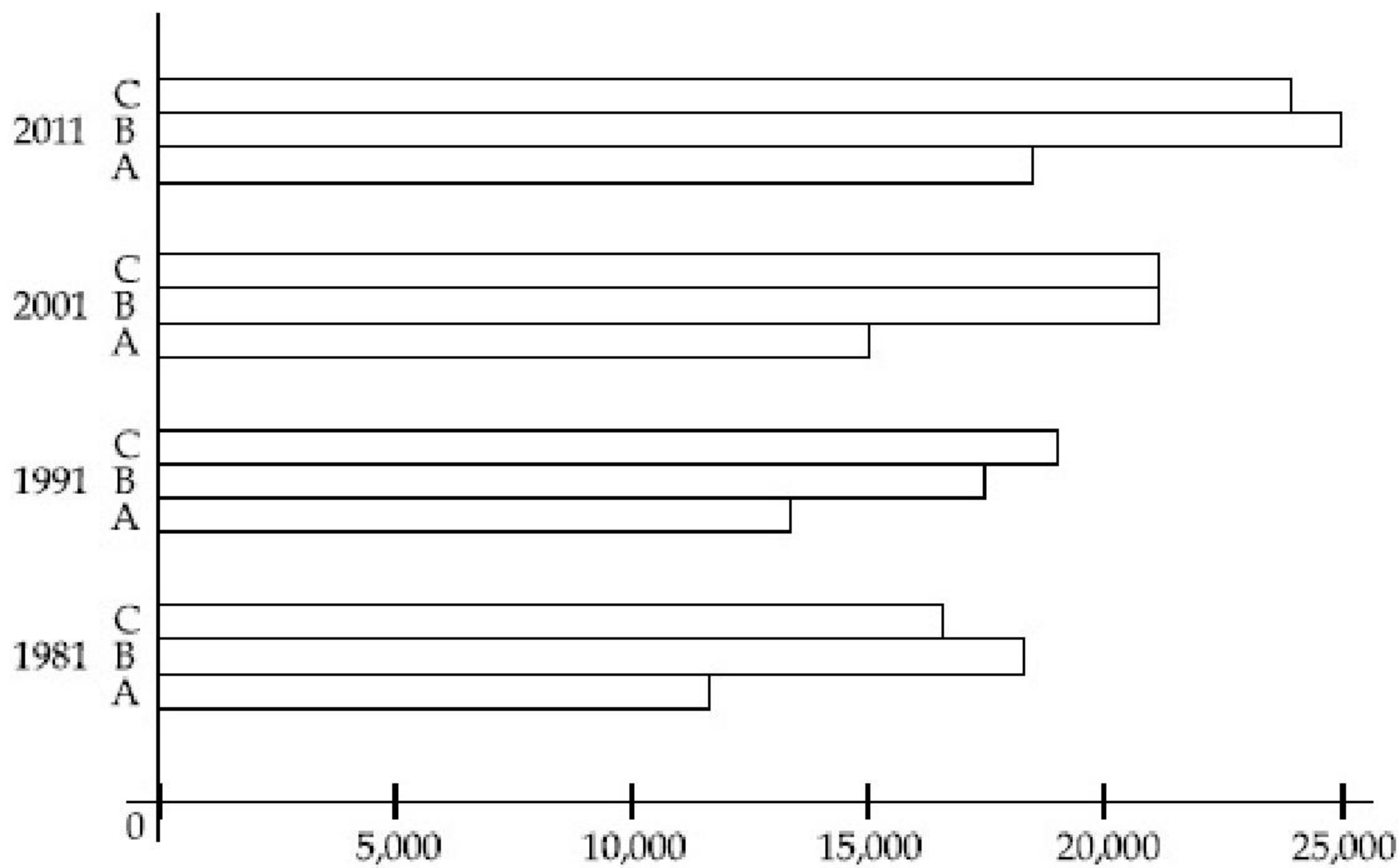
70819145537. City A shows the increase in population from 1981 to 2011 and city C does not show the increase likewise.
70819145538. City B shows a continuous decline in population from 1981-2011 whereas city A shows an increase.
70819145539. Population in city A is increasing in each decade from 1981 to 2001 whereas city B shows a decline from 1981 to 1991 and then it increases from 1991 to 2001.
70819145540. City C shows continuous decline in population in various decades whereas city B shows increase.

Question Number : 100 Question Id : 70819113741 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

1981 से 2011 तक शहर A, B एवं C की जनसंख्या।



सही कथन चुनिए।

Options :

70819145537. शहर 'A' 1981 से 2011 के बीच जनसंख्या को बढ़ता हुआ दिखाता है एवं शहर 'C' ऐसा कोई बढ़ावा नहीं दिखाता है।

70819145538. शहर 'B' 1981 से 2011 के बीच जनसंख्या को लगातार घटता हुआ दिखाता है एवं शहर 'A' बढ़ता हुआ दिखाता है।

70819145539. शहर 'A' में 1981 से 2001 के बीच जनसंख्या प्रत्येक दशक में बढ़ रही है, वहीं शहर 'B' में 1981 से 1991 के बीच जनसंख्या घट रही है और 1991 से 2001 के बीच बढ़ रही है।

70819145540. शहर 'C' विभिन्न दशकों में जनसंख्या घटन दिखाता है, एवं शहर 'B' बढ़ावा दिखाता है।

Question Number : 101 Question Id : 70819113742 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

In a survey, the speeds of 100 vehicles were observed. The following table gives the distribution of vehicle speed and the corresponding number of vehicles.

Vehicle Speed (kmhr^{-1})	No. of Vehicles
20	6
25	20
28	24
29	28
33	15
38	4
40	2
45	1

The median speed of the vehicles is :

Options :

70819145541. 26 kmhr^{-1}

70819145542. 21.5 kmhr^{-1}

70819145543. 30 kmhr^{-1}

70819145544. 28.5 kmhr^{-1}

Question Number : 101 Question Id : 70819113742 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

एक सर्वेक्षण में, 100 वाहनों की गति को देखा गया। नीचे दी गयी सारणी में वाहन की गति और वाहनों की संख्या को दर्शाया गया है।

वाहन गति (कि.मी. प्रति घंटा)	वाहनों की संख्या
20	6
25	20
28	24
29	28
33	15
38	4
40	2
45	1

वाहनों की औसतन गति है :

Options :

70819145541. 26 कि.मी./घंटा

70819145542. 21.5 कि.मी./घंटा

70819145543. 30 कि.मी./घंटा

70819145544. 28.5 कि.मी./घंटा

Question Number : 102 Question Id : 70819113743 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Hundreds of Shanty towns line the river banks, train tracks, and garbage dumps in the Filipino capital. Around a quarter of its 12 million are considered 'informal settlers'. Manila is starkly representative of a global problem. According to the United Nations, about a quarter of the World's urban population lives in slums.

Slum tourism takes outsiders through their most impoverished marginalized districts. Slum tourism sparks considerable debate around an uncomfortable moral dilemma. Many consider the practice little more than slack-jawed privileged people gawking at those less fortunate. Others argue they raise awareness and provide numerous examples of giving back to the local communities.

Which of the following best justify 'Slum Tourism' in the above paragraph ?

Options :

70819145545. As a charity by privileged people.

70819145546. As a way to reduce crime.

70819145547. As a way to sensitize travellers about poor living conditions in the society.

70819145548. As an adventure activity.

Question Number : 102 Question Id : 70819113743 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Hundreds of Shanty towns line the river banks, train tracks, and garbage dumps in the Filipino capital. Around a quarter of its 12 million are considered 'informal settlers'. Manila is starkly representative of a global problem. According to the United Nations, about a quarter of the World's urban population lives in slums.

Slum tourism takes outsiders through their most impoverished marginalized districts. Slum tourism sparks considerable debate around an uncomfortable moral dilemma. Many consider the practice little more than slack-jawed privileged people gawking at those less fortunate. Others argue they raise awareness and provide numerous examples of giving back to the local communities.

Which of the following best justify 'Slum Tourism' in the above paragraph ?

Options :

70819145545. As a charity by privileged people.

70819145546. As a way to reduce crime.

70819145547. As a way to sensitize travellers about poor living conditions in the society.

70819145548. As an adventure activity.

Question Number : 103 Question Id : 70819113744 Question Type : MCQ 0 ZOLLEGE.in

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Hundreds of Shanty towns line the river banks, train tracks, and garbage dumps in the Filipino capital. Around a quarter of its 12 million are considered 'informal settlers'. Manila is starkly representative of a global problem. According to the United Nations, about a quarter of the World's urban population lives in slums.

Slum tourism takes outsiders through their most impoverished marginalized districts. Slum tourism sparks considerable debate around an uncomfortable moral dilemma. Many consider the practice little more than slack-jawed privileged people gawking at those less fortunate. Others argue they raise awareness and provide numerous examples of giving back to the local communities.

The nearest meaning of 'Gawking' in this paragraph would be :

Options :

70819145549. Learning

70819145550. Staring

70819145551. Peeping

70819145552. Gloating

Question Number : 103 Question Id : 70819113744 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Hundreds of Shanty towns line the river banks, train tracks, and garbage dumps in the Filipino capital. Around a quarter of its 12 million are considered 'informal settlers'. Manila is starkly representative of a global problem. According to the United Nations, about a quarter of the World's urban population lives in slums.

Slum tourism takes outsiders through their most impoverished marginalized districts. Slum tourism sparks considerable debate around an uncomfortable moral dilemma. Many consider the practice little more than slack-jawed privileged people gawking at those less fortunate. Others argue they raise awareness and provide numerous examples of giving back to the local communities.

The nearest meaning of 'Gawking' in this paragraph would be :

Options :

70819145549. Learning

70819145550. Staring

70819145551. Peeping

70819145552. Gloating

Question Number : 104 Question Id : 70819113745 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements : one is labelled as Assertion A and the other is labelled as Reason R.

Assertion A : Over the last two decades collective attention span is decreasing.

Reason R : Quick availability and rapid access to large amount of information leads to loss of interest in one topic very quickly.

In the light of the above statements, choose the correct answer from the options given below :

Options :

70819145553. Both A and R are true and R is the correct explanation of A

70819145554. Both A and R are true but R is NOT the correct explanation of A

70819145555. A is true but R is false

70819145556. A is false but R is true

Question Number : 104 Question Id : 70819113745 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

निम्नलिखित दो विधान दिये हैं, एक अभिकथन 'A' से सूचित है और दूसरा कारण 'R' से सूचित है।

अभिकथन A : पिछले दो दशकों से सामूहिक ध्यान अवधि घटती जा रही है।

कारण R : त्वरित उपलब्धता एवं अधिक जानकारी की तीव्र पहुँच एक विषय को उबाऊ बना देती है।

ऊपर दिये हुए वाक्यों के अनुसार, नीचे दिये हुए वाक्यों में से सही वाक्य चुनिए।

Options :

70819145553. दोनों वाक्य A एवं R सही हैं। वाक्य R, वाक्य A का सही स्पष्टीकरण है।
70819145554. दोनों वाक्य A एवं R सही हैं। परन्तु वाक्य R, वाक्य A का सही स्पष्टीकरण नहीं देता है।
70819145555. वाक्य A सही है, परन्तु वाक्य R नहीं।
70819145556. वाक्य A सही नहीं है, परन्तु वाक्य R सही है।

Question Number : 105 Question Id : 70819113746 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements : one is labelled as Assertion A and the other is labelled as Reason R :

Assertion A : In past two decades, rate of divorce has increased in India.

Reason R : Increasing number of married couples do not want to have children.

In the light of the above statements, choose the correct answer from the options given below :

Options :

70819145557. Both A and R are true and R is the correct explanation of A
70819145558. Both A and R are true but R is NOT the correct explanation of A
70819145559. A is true but R is false
70819145560. A is false but R is true

Question Number : 105 Question Id : 70819113746 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

निम्नलिखित दो विधान दिये हैं एक अभिकथन 'A' से सूचित है और दूसरा कारण 'R' से सूचित है।

अभिकथन A : पिछले दो दशकों में, भारत में तलाक की दर में बढ़ावा आया है।

कारण R : ऐसे शादीशुदा जोड़े जिनको शिशु नहीं चाहिए, की संख्या बढ़ती जा रही है।

ऊपर दिये गये कथनों के अनुसार, नीचे दिये हुये कथनों में से सही कथन चुनिए।

Options :

70819145557. दोनों वाक्य A एवं R सही हैं एवं वाक्य R, वाक्य A का सही स्पष्टीकरण है।

70819145558. दोनों वाक्य A एवं R सही हैं एवं वाक्य R, वाक्य A का सही स्पष्टीकरण नहीं है।

70819145559. वाक्य A सही है, परन्तु वाक्य R गलत है।

70819145560. वाक्य A गलत है, परन्तु वाक्य R सही है।

Drawing

Section Id :	708191482
Section Number :	5
Section type :	Offline
Mandatory or Optional :	Mandatory
Number of Questions :	2
Number of Questions to be attempted :	2
Section Marks :	100
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	708191762
Question Shuffling Allowed :	No

Question Number : 106 Question Id : 70819113747 Question Type : SUBJECTIVE

Correct Marks : 50

Draw a proportionate sketch of given reference image by using any black and white rendering techniques of your own choice.

OR

Decode image and prepare balanced composition in a frame of your choice by using any black and white rendering techniques.



Question Number : 106 Question Id : 70819113747 Question Type : SUBJECTIVE

Correct Marks : 50

अपनी पसंद के किसी भी ब्लैक एंड व्हाइट रेंडरिंग तकनीक का उपयोग करके दी गई छवि का एक अनुपातिक स्केच बनाएँ।

अथवा

दी गई छवि का विसंकेतन करके अपने पसंद के फ्रेम में संतुलित रचना तैयार करें। ब्लैक एंड व्हाइट रेंडरिंग तकनीक का प्रयोग करें।



Question Number : 107 Question Id : 70819113748 Question Type : SUBJECTIVE

Correct Marks : 50

Draw a scene of a Kite festival by using colors.

OR

Draw a Harmonic three dimensional composition with the following two types of objects.

- (i) CUBOID A : SIZE $2\text{ cm} \times 2\text{ cm} \times 2\text{ cm}$, 5 Nos.
- (ii) CUBOID B : SIZE $5\text{ cm} \times 2\text{ cm} \times 2\text{ cm}$, 4 Nos.

Use 'Cool Colorscheme' for composition.

Question Number : 107 Question Id : 70819113748 Question Type : SUBJECTIVE

Correct Marks : 50

रंगों का उपयोग करके पतंग उत्सव का दृश्य बनाइये।

अथवा

नीचे दिये गये दो प्रकार के वस्तुओं का उपयोग करके एक समतल तीन द्वांत्मक रचना बनाइये।

- (i) घनाभ A : 2 से.मी. $\times$ 2 से.मी. $\times$ 2 से.मी. संख्या - 5
- (ii) घनाभ B : 5 से.मी. $\times$ 2 से.मी. $\times$ 2 से.मी. संख्या - 4

शीत रंगसंगती का प्रयोग करें।