

GRE Quantitative Practice Test 10

1.

Column A

$$(m)^{444}$$

Column B

$$(m)^{44.4}$$

where, $m > 0$

if the quantity in Column A is greater;

if the quantity in Column B is greater;

if the two quantities are equal;

if the relationship cannot be determined from the information given.

2. P can do a piece of work in 24 days, Q is 50% more efficient than P.

Column A

Column B

Number of days taken by Q

18 days

if the quantity in Column A is greater;

if the quantity in Column B is greater;

if the two quantities are equal;

if the relationship cannot be determined from the information given.

3.

Column A

Column B

$$8\sqrt[3]{2}$$

$$\sqrt[3]{1024}$$

if the quantity in Column A is greater;

if the quantity in Column B is greater;

if the two quantities are equal;

if the relationship cannot be determined from the information given.

4. Product of two natural numbers P and Q is 590 and their HCF is 59. How many set of values of P and Q is possible?

5. If the group of students eats 2 cookies, 3 sandwiches and drinks 2 cokes, the bill amounts to \$74. If the group of students eats 5 cookies, 6 sandwiches and drinks 4 coke, the bill amounts to \$128. If the group of

students eats 3 cookies, 3 sandwiches and drinks 2 coke, then what should the group pay?

\$78

\$54

\$48

\$96

6. Two machines S and T produce 1000 and 2000 items every day. Machine S produce 10 defective items machine T produces 40 defective items. On particular day the supervisor of the shop floor picked up an item and found it was defective. Find the probability that it came from machine S.

1/4

1/5

1/6

1/8

1/7

7. All the sides of a hexagon become three times the original length. Find the ratio of areas of the new and old hexagons.

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8. A train travels from station A to C having distance of 285 miles in 6 hours. During the journey, it reaches intermediate station B at the average speed of 40 miles/hr. From station B, train reaches station C at average speed of 55 miles/hr. What is the distance between the station B and C?

Miles

9. If m and n are the roots of the equation $a^2 - 6a + 8 = 0$, then find the value of $(m+n)(m-n)$

12

8

16

4

18

10. If a bookstore owner buys 15 books less for \$900 when the price of each book goes up by \$3, then find the original price of book.

\$20

\$18

\$15

\$12

\$9