

GRE Quantitative Practice Test 5

Question 1

The ratio of the number of male freshmen to the number of female sophomores is approximately

- (A) 2 to 1
- (B) 3 to 1
- (C) 3 to 2
- (D) 4 to 1
- (E) 5 to 3

Question 2

If the total enrollment is 12 percent greater than it was five years ago, what was the total enrollment five years ago?

- (A) 1,180
- (B) 1,192
- (C) 1,220
- (D) 1,232
- (E) 1,250

Question 3

How many students are either juniors or males or both?

- (A) 678
- (B) 766
- (C) 948
- (D) 1,130
- (E) 1,312

Question 4

Which of the following statements must be true?

Indicate all such statements.

- ☐ A The number of males majoring in physical sciences is greater than the number of females majoring in that area.
- ☐ B Students majoring in either social sciences or physical sciences constitute more than 50 percent of the total enrollment.
- ☐ C The ratio of the number of males to the number of females in the senior class is less than 2 to 1.

Question 5

The quantities S and T are positive and are related by the equation

$S = \frac{k}{T}$, where k is a constant. If the value of S increases by 50 percent, then the value of T decreases by what percent?

- ☐ A 25%
- ☐ B $33\frac{1}{3}\%$
- ☐ C 50%
- ☐ D $66\frac{2}{3}\%$
- ☐ E 75%

Question 6

If x and y are the tens digit and the units digit, respectively, of the product $725,278 \times 67,066$, what is the value of $x + y$?

- ☐ A 12
- ☐ B 10
- ☐ C 8
- ☐ D 6
- ☐ E 4

Question 7

A developer has land that has x feet of lake frontage. The land is to be subdivided into lots, each of which is to have either 80 feet or 100 feet of lake frontage. If $\frac{1}{9}$ of the lots are to have 80 feet of frontage each and the remaining 40 lots are to have 100 feet of frontage each, what is the value of x ?

- (A) 400
- (B) 3,200
- (C) 3,700
- (D) 4,400
- (E) 4,760

Question 8

This question does not have any answer choices; it is a numeric-entry question. To answer this question, enter a number in the grid provided below. The number can include a decimal point, and can be positive, negative, or zero. The number entered cannot be a fraction.

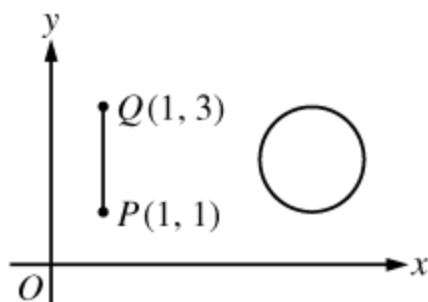
10, 10, 10, 10, 8, 8, 8, 8, 12, 12, 11, y

The twelve numbers shown represent the age, in years, of the twelve houses on a certain city block. What is the median age, in years, of the twelve houses on the block?

									years
—	.	.	.	.	.	.	.	.	
	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	
	2	2	2	2	2	2	2	2	
	3	3	3	3	3	3	3	3	
	4	4	4	4	4	4	4	4	
	5	5	5	5	5	5	5	5	
	6	6	6	6	6	6	6	6	
	7	7	7	7	7	7	7	7	
	8	8	8	8	8	8	8	8	
	9	9	9	9	9	9	9	9	

Question 9

This question has eight answer choices. Select **all** the answer choices that apply. The correct answer to a question of this type could consist of as few as one, or as many as all eight of the answer choices.



The figure shows line segment PQ and a circle with radius 1 and center $(5, 2)$ in the xy -plane. Which of the following values could be the distance between a point on line segment PQ and a point on the circle?

Indicate **all** such values.

- ☐ A 2.5
- ☐ B 3.0
- ☐ C 3.5
- ☐ D 4.0
- ☐ E 4.5
- ☐ F 5.0
- ☐ G 5.5
- ☐ H 6.0

Question 10

The profit gnerated by company ABC is divided between its two founders Jack and Mark in a 4:3 ratio respectively.

Column 1	Column 2
Jack's share when the profit generated by company ABC is \$ 8000	\$5000

What is the correct answer?

- 1. Quantity in column 1 is higher
- 2. Quantity in column 2 is higher
- 3. The data provided isn't enough to determine the answer
- 4. Both the quantities given are equal