



GRE Quant Practice Paper 29

Question 1

For questions (1 to 8) : Compare Quantity A and Quantity B, using additional information centered above the two quantities if such information is given, and select one of the following four answer choices:

- Quantity A is greater.
- Quantity B is greater.
- The two quantities are equal.
- The relationship cannot be determined from the information given.

Symbol that appears more than once in a question has the same meaning throughout the question.

	
Quantity A	Quantity B
x	y
x	y

Quantity A is greater.

Quantity B is greater.

The two quantities are equal.

The relationship cannot be determined from the information given.

Question 2

$(-x)^3 = 64$	
Quantity A	Quantity B
x^5	x^5

- Quantity A is greater.
-
- Quantity B is greater.
-
- The two quantities are equal.
-
- The relationship cannot be determined from the information given.
-

Question 3

$x = 2$	
Quantity A	Quantity B
$x^2 - 4x + 3$	1

- Quantity A is greater.
-
- Quantity B is greater.
-
- The two quantities are equal.
-
- The relationship cannot be determined from the information given.
-

Question 4

$$f(x) = 2x - 3$$

$$f(m) = -11$$

Quantity A	Quantity B
The value of m	Half the value of $f(m)$

- Quantity A is greater.
-
- Quantity B is greater.
-
- The two quantities are equal.
-
- The relationship cannot be determined from the information given.

Question 5

Quantity A	Quantity B
$39 - (25 - 17)$	$39 - 25 - 17$

- Quantity A is greater.
-
- Quantity B is greater.
-
- The two quantities are equal.
-
- The relationship cannot be determined from the information given.

Question 6

$$1,200x + 6,000 = 13,200$$

$$12y + 60 = 132$$

Quantity A	Quantity B
x	y

- Quantity A is greater.
-
- Quantity B is greater.
-
- The two quantities are equal.
-
- The relationship cannot be determined from the information given.

Question 7

Quantity A	Quantity B
$(30,000,000)(2,000,000)$	$(15,000,000)(4,000,000)$

- Quantity A is greater.
-
- Quantity B is greater.
-
- The two quantities are equal.
-
- The relationship cannot be determined from the information given.
-

Question 8

Quantity A	Quantity B
$(x + 2)(x - 3)$	$x^2 - x - 6$

- Quantity A is greater.
-
- Quantity B is greater.
-
- The two quantities are equal.
-
- The relationship cannot be determined from the information given.
-

Question 9

If $x - y = \sqrt{12}$ and $x + y = \sqrt{3}$, what is the value of $x^2 - y^2$?

3

6

9

12

It cannot be determined from the information given.

Question 10

Mary has six more tapes than Pedro. If Pedro gives two tapes to John and then Pedro buys 5 new tapes, how many more tapes does Mary have than Pedro?

3

4

5

6

7

Question 11

25 percent of 30 is 75 percent of what number?

5

10

15

20

25

Question 12

Wendy builds a birdhouse in 15 hours and Michael builds an identical birdhouse in 10 hours. How many hours will it take Wendy and Michael, working together at their respective constant rates, to build a birdhouse? (Assume that they can work on the same birdhouse without changing each other's work rate.)

40

50

60

70

80

Question 13

Laura established a new flower garden, planting 4 tulip plants to every 1 rose plant, and no other plants. If she planted a total of 50 plants in the garden, how many of those plants were tulips?

50

40

30

20

10

Question 14

$w, x, y,$ and z are consecutive odd integers such that $w < x < y < z$. Which of the following statements must be true?

Indicate all such statements.

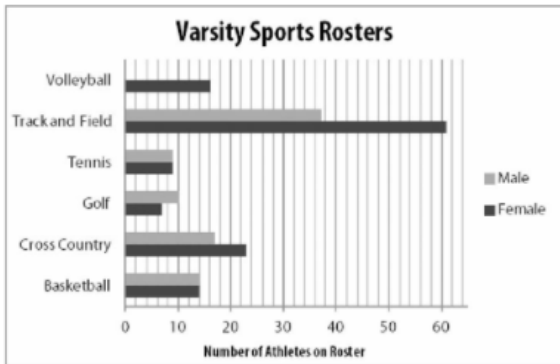
$wxyz$ is odd

$w + x + y + z$ is odd

$w + z = x + y$

Question 15

Questions (15 to 17) are based on the following data.



Question 16

Question

What is the ratio of male athletes to female athletes on the track and field roster?

$\frac{37}{61}$

$\frac{9}{14}$

$\frac{17}{23}$

$\frac{14}{9}$

$\frac{61}{37}$

On what varsity sports rosters do male athletes outnumber female athletes?

Indicate all such rosters.

Volleyball

Track and Field

Tennis

Golf

Cross Country

Basketball

Question 17

What is the ratio of female tennis players to male basketball players on the varsity sports rosters?

$\frac{5}{12}$

$\frac{9}{14}$

$\frac{7}{8}$

$\frac{14}{9}$

$\frac{12}{5}$

Question 18

Last season, Jacob's tennis record was 3 matches won for every 2 he lost. If he played 30 matches last season, how many did he win?

12

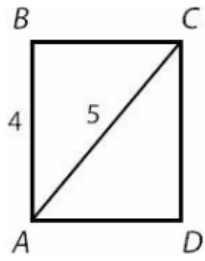
14

16

18

20

Question 19



What is the area of Rectangle ABCD ?

6

10

12

16

20

Question 20

What is the distance between the points $(-1, -1)$ and $(5, 6)$?

5

17

$\sqrt{27}$

$\sqrt{75}$

$\sqrt{85}$
