

GRE Quant Practice Paper 28
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.

Question 2

Question

An item's price is discounted by 16%. Subsequently, the discounted price is increased by 16%.

Quantity A	Quantity B
The original price	The price after the discount and increase

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

On a certain morning, Stock X is worth \$ x , where x is positive.

Quantity A	Quantity B
The price of Stock X if it decreases in value by 12%, then increases by 18%. The price of Stock X if it decreases in value	The price of Stock X if it decreases in value by 13%, then increases by 19%.

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

Question 3

Quantity A	Quantity B
The area of a circle with radius 4	The circumference of a circle with radius 6

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

Question 4

Quantity A	Quantity B
27^2	$3^2 \times 9^2$

- 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
The area of a rectangle with perimeter 40	110

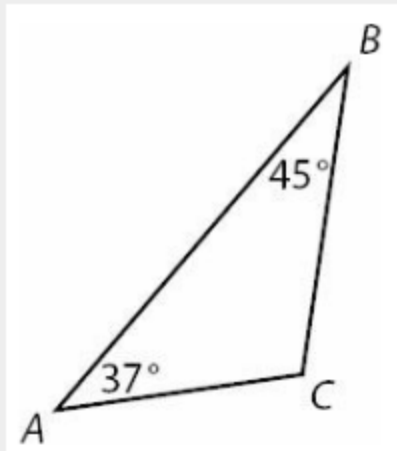
- Quantity A is greater.
-
- Quantity B is greater.
-
- The two quantities are equal.
-
- The relationship cannot be determined from the information given.
-

Question 6

$a, b, c,$ and d are consecutive integers such that $a < b < c < d$	
Quantity A	Quantity B
The average of $a, b, c,$ and d	The average of b and c

- 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
Side length AC	Side length BC

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

Question 8

The ratio of 16 to g is equal to the ratio of g to 49

Quantity A	Quantity B
g	28

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

Question 9

A circle has an area of 16π . What is its circumference?

- 4π
-
- 8π
-
- 12π
-
- 16π
-
- 32π

Question 10

Of the 24 children in a classroom, 12 are boys. Which of the following is the ratio of boys to girls in the classroom?

1 : 1

1 : 2

2 : 1

1 : 3

3 : 1

Question 11

If $3^2 9^2 = 3^x$, what is x ?

1

2

4

5

6

Question 12

If x is reduced by 30%, the resulting number is 63.
The value of x =

50

60

70

80

90

Question 13

Five students in a classroom are lining up one behind the other for recess. How many different lines are possible?

40

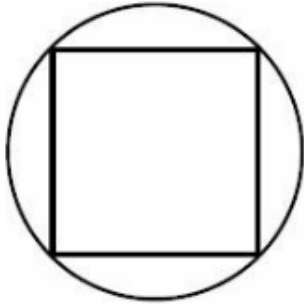
80

100

120

140

Question 14



In the figure above, a square is inscribed in a circle. If the area of the square is 4, what is the area of the circle?

π

2π

4π

6π

8π

Question 15

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

Number of Hours Worked Per Week per Employee at Marshville Toy Company	
Number of employees	Hours worked per week
4	15
9	25
15	35
27	40
5	50

Question

What is the median number of hours worked per week per employee at Marshville Toy Company?

10

20

30

40

50

Question 16

What is the average number of hours worked per week per employee at Marshville Toy Company?

32

33

35

$35\frac{2}{3}$

$36\frac{1}{3}$

Question 17

What is the positive difference between the mode and the range of the number of hours worked per week per employee at Marshville Toy Company?

0

5

2

4

1

Question 18

Attendees at a charity dinner each gave at least \$85 to the charity. If \$6,450 was collected, what is the maximum number of people who could have attended?

72

73

74

75

76

Question 19

Norman is 12 years older than Michael. In 6 years, he will be twice as old as Michael. How old is Michael now?

3

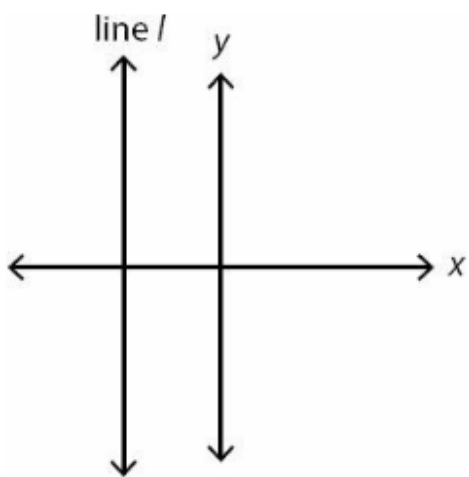
4

5

6

7

Question 20



If line l is parallel to the y -axis, what could be the equation of line l ?

$x = 2$

$x = -2$

$y = 2$

$y = -2$

$y = -2x$
