GRE QUANT PRACTICE PAPER

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

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.

Question 2

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:

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Question

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
PREV NEXT

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:

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

Question

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 3

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:

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Question

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

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:

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

Question

Quantity A	Quantity B
27_2272	$3_2 \times 9_2 32 \times 92$

○

Quantity A is greater.

○

Quantity B is greater.

○

The two quantities are equal.

○

The relationship cannot be determined from the information given.

Question 5

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:

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

Question

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
PREV NEXT

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:

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- The two quantities are equal.
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Symbol that appears more than once in a question has the same meaning throughout the question.

Question

a,b,c,a,b,c, and dd are consecutive integers such that a<b<c<da<b<c<d	
Quantity A	Quantity B
The average of a,b,c,a,b,c, and dd	The average of bb and cc

○

Quantity A is greater.
○

Quantity B is greater.
○

The two quantities are equal.
○

The relationship cannot be determined from the information given.

Question 7

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

Quantity A	Quantity B
Side length ACAC	Side length BCBC

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

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:

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- The two quantities are equal.
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Symbol that appears more than once in a question has the same meaning throughout the question.

Question

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

Quantity A	Quantity B
gg	28

○

Quantity A is greater.

○

Quantity B is greater.

○

The two quantities are equal.

○

The relationship cannot be determined from the information given.

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 $3^2 9^2 = 3^x 3292 = 3x$, what is xx ?

○

1

○

2

○

4

○

5

○

6

Question 12

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

○

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

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

○

3232

○

3333

○

3535

○

35233523

○

3613

Question 17
PREV NEXT

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 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 II is parallel to the yy-axis, what could be the equation of line II ?

○

x=2x=2

○

x=−2x=−2

○

y=2y=2

○

y=−2y=−2

○

y=−2x

21.

. What is the surface area of a cylinder with a radius of 17 and a height of 3?

select	
3107	
select	
1984	
select	
2205	
select	
2000	
select	
2137	

22.

. A cylinder has a radius of 4 and a height of 8. What is its surface area?

select	
64π	
select	
96π	

select	
32π	
select	
100π	
select	
128π	

23.

A right circular cylinder of volume 200π has a height of 8.

. Quantity A: 10
  Quantity B: The circumference of the base

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

24.

Quantitative Comparison

4. Quantity A: The volume of a cylinder with a radius of 3 and a height of 4
   Quantity B: 3 times the volume of a cone with a radius of 3 and a height of 4

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

25.

. What is the surface area of a cylinder that has a diameter of 6 inches and is 4 inches tall?

select

10π

select

12π

select

15π

select

4π

select

42π

26.

. Quantity A: Surface area of a cylinder that is 2 feet high and has a radius of 4 feet
  Quantity B: Surface area of a box that is 3 feet wide, 2 feet high, and 4 feet long

select

Quantity B is greater.

select

The relationship cannot be determined from the information given.

select

The two quantities are equal.

select

Quantity A is greater.

27.

. What is the surface area of a cylinder with a radius of 6 and a height of 9?

select	
64π	
select	
96π	
select	
225π	
select	
180π	
select	
108π	

28.

. The area of the base of a circular right cylinder is quadrupled. By what percentage is the outer face increased by this change?

select	
400%	
select	
250%	
select	
200%	
select	
300%	
select	
100%	