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

Quantity A	Quantity B
$-34+23-34+23$	$-34\times23-34\times23$

○

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:

- 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
The change in price of a pair of shoes marked down by 50%	The change in price of a pair of boots marked down by 30%

○

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:

- 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

A car with all available options costs $18,000, an increase of 20% from the base price of the car.

Quantity A	Quantity B
The base price of the car	$14,400

○

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:

- 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

A certain brand of imported cigars costs $30 for a box of 20; when bought individually, the cigars cost $2 each.

Quantity A	Quantity B
The percent saved when a box of cigars is purchased, rather than 20 individual cigars	33133313

○

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:

- 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

a is 40% of 45a is 40% of 45 18 is b% of 9018 is b% of 90	
Quantity A	Quantity B
aa	bb

○

Quantity A is greater.

○

Quantity B is greater.

○

The two quantities are equal.

○

The relationship cannot be determined from the information given.

Question 6

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

Jack began a savings account with a balance of $200. His current balance is $150.

Quantity A	Quantity B
The percent decrease from Jack's original balance to his current balance	The percent increase that would return Jack's current balance to his original balance

○

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
40% of 50	50% of 40

○

Quantity A is greater.

○

Quantity B is greater.

○

The two quantities are equal.

○

The relationship cannot be determined from the information given.

Question 8

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
$25^2 - 20^2$	$\sqrt{14400}$

○

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 there are 20 birds and 6 dogs in a park, which of the following represents the ratio of dogs to birds in the park?

○

3 : 10

○

10 : 3

○

5 : 6

○

2 : 3
○

6 : 7

Question 10

\
If Nash had 12 grandchildren and three times as many granddaughters as grandsons, how many granddaughters did he have?

○

3

○

6

○

9

○

12

○

15

Question 11

What is the value of x ?

○

80°

○

70°

○

50°

○

60°

○

40°

Question 12

Husain and Dino have an average of $20 each. Dino wins a cash prize, which raises their average to $80. Assuming no other changes occurred, how many dollars did Dino win?

○
$60
○
$80
○
$100
○
$120
○
$180

Question 13

On a number line, AA is 6 units from BB and BB is 2 units from CC. What is the distance between AA and CC ?

○
4
○
8
○
12
○
4 or 8
○
8 or 12

Question 14
If a turtle traveled $\frac{1}{30}$ of a mile in 5 minutes, what was its speed in miles per hour ?
○
0.02
○
0.04
○
0.2
○
0.4
○
2.5
Question 15

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

9th Grade Students at Millbrook High School		
	Boys	Girls
Enrolled in Spanish	12	13
Not enrolled in Spanish	19	16

Question

Approximately what percent of the 9th grade girls at Millbrook High School are enrolled in Spanish?

○
20%
○
25%
○
30%
○
35%
○
45%

Question 16

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

9th Grade Students at Millbrook High School		
	Boys	Girls
Enrolled in Spanish	12	13
Not enrolled in Spanish	19	16

Question

What fraction of the students in 9th grade at Millbrook High School are boys who are enrolled in Spanish?

○
1/5

○

5/1

○

1/9

○

9/1

○

2/7

Question 17

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

9th Grade Students at Millbrook High School		
	Boys	Girls
Enrolled in Spanish	12	13
Not enrolled in Spanish	19	16

Question

What is the ratio of 9th grade girls not enrolled in Spanish to all 9th grade students at Millbrook Middle School?

○

2 : 10

○

3 : 11

○

2 : 15

○

3 : 17

○

4 : 15

Question 18

If twice 4,632 is divided by 100, what is the <u>tenths</u> digit?

○

1
○

3
○

5
○

6
○

9

Question 19

If $6<2x-4<12$, which of the following could be a value of x ?

○

9
○

7
○

5
○

3
○

1

Question 20

Which of the following is most likely to be the equation of line l ?

○

$y=x-6y$
○

$y=-x-3$
○

$y=4x+4$
○

$y=4x-4$
○

$y=x+1/2$

21.

. Find the surface area of a sphere with a diameter of 14. Use $\pi = 22/7$.

- 2464
- 1256
- 428
- 616
- 872

22.

. What is the volume of a sphere with a radius of 3?

- 24π
- 96π
- 112π
- 48π
- 36π

23.

. A cube weighs 216 grams. If you carve a sphere out of the cube such that the diameter of the sphere is equal to one of the sides of the square, how many grams is the weight of the resulting sphere?

- 288π
- 36π
- 144π
- 216π
- 9π

24.

4. How many times greater is the volume of a sphere with radius of 3 than the volume of a sphere with radius of $3-\sqrt{}$?

select

9

select

33–√

select

3–√

select

93–√

select

3

25.

. A sphere has a surface area of 16π square inches. If the radius is doubled, what is the surface
area of the larger sphere?

select

48π in$_2$

select

64π in$_2$

select

16π in$_2$

select

32π in$_2$

select

Cannot be determined

26.

. How much does the volume of a sphere increase if its radius is increased by 50%?

select

0.3375%

select

50%

select	
237.5%	
select	
150%	
select	
337.5%	