

# GRE QUANT PRACTICE PAPER

1. Choose the answer which best simplifies the expression below:

$$2a^2 + 16a + 3y - 42 - 112 - 8y + 14a - ay$$

$$2a^2 + 16a + 3y - 42 - 112 - 8y + 14a - ay$$

$$2a^2 + 16a + 3y + 42 - 112 - 8y + 14a - ay$$

$$2a^2 + 16a + 3y - 42 - 112 - 8y - 14a - ay$$

$$2a^2 + 16a + 3y - 42 - 112 - 8y + 14a - ay$$

$$2a^2 + 16a - 3y - 42 - 112 - 8y + 14a - ay$$

## Quantitative Comparison

2.  $x$  and  $y$  are non-zero integers.

Quantity A:  $(x - y)^2$

Quantity B:  $(x + y)^2$

Quantity B is greater.

The two quantities are equal.

Quantity A is greater.

The answer cannot be determined from the information given.

3. Simplify the following:

$$125\sqrt{+245} - \sqrt{+80} - \sqrt{+80} - \sqrt{+245}$$

It cannot be simplified any further

$$35\sqrt{+212} - \sqrt{+212}$$

$905 - \sqrt{\quad}$

$165 - \sqrt{\quad}$

$450 - \sqrt{\quad}$

4. Simplify:

$250 - \sqrt{10} - \sqrt{\quad}$

$10 - \sqrt{\quad}$

25

5

$10 - \sqrt{5}$

$10 - \sqrt{2}$

There are 3,500 people in group A and 5,000 people in group B:

Car Type	% in Group A Who Own	% in Group B Who Own
Motorbike	4	9
Sedan	35	25
Minivan	22	15
Van	9	12
Coupe	3	6

5. The number of people in group B who own a minivan is how much greater or less than the number of people in group A who own a minivan?

15 more

50 fewer

20 fewer

30 fewer

30 more

6. Find the square root of the following decimal:

$$0.004 \text{ ----- } \sqrt{\quad}$$

0.002

0.016

0.0632

0.02

7. Let Z represent a sequence of numbers ( $Z_1, Z_2, Z_3, Z_4, \dots, Z_n$ ) wherein each term is defined as seven less than three times the preceding term. If  $Z_3 + Z_5 = 142$ , what is the first term in the sequence?

44

5

125

17

8

8. Evaluate.

$$0.4835$$

0.032

0.32

3.2

0.0032

32

9. Mohammed is being treated to ice cream for his birthday, and he's allowed to build a three-scoop sundae from any of the thirty-one available flavors, with the only condition being that each of these flavors be unique. He's also allowed to pick 2 different toppings of the available 10, although he's already decided well in advance that one of them is going to be peanut butter cup pieces.

Knowing these details, how many sundae combinations are available?

242730

44950

2427300

40455

202275

## Quantitative Comparison

10. Alice has a puppy and a kitten. The puppy weighs 4 pounds and grows at a rate of 1 pound per month. The kitten weighs 2 pounds and grows at a rate of 2 pounds per month.

Quantity A: Weight of the puppy after 8 months

Quantity B: Weight of the kitten after 7 months

The two quantities are equal.

Quantity B is greater.

Quantity A is greater.

The relationship cannot be determined from the information given.

11. If  $m$  and  $n$  are both odd integers, which of the following is not necessarily odd?

$m+n^2$

$m-2n$

$m^2n$

$mn$

$2m-n$



12. Which of the following inequalities is represented by the number line shown above?

$|4x-6| \leq 14$

$|5x-5| \geq 25$

$5x \leq 25$

$4x \geq -8$

$$|3x-12|\leq 6$$

13. Product X costs \$27 to manufacture at the rate of 50 per hour. Production can only be increased in groups of 10 units per hour. For each such increase, the production cost increases 30% of its previous amount. If the output is to be doubled, for how much must each unit be sold to make at least a 25% profit?

\$125.32

\$157.32

\$219.38

\$213.75

\$198.28

14. In a bowl containing 10 marbles, 5 are blue and 5 are pink. If 2 marbles are picked randomly, what is the probability that the 2 marbles will not both be pink?

2/9

5/6

7/9

7/8

The average of four numbers is 25. The average of three of these numbers is 20.

15. Quantity A: The value of the fourth number  
Quantity B: 35

Quantity A is greater.

The two quantities are equal.

The relationship cannot be determined from the information given.

Quantity B is greater.