

# GRE QUANT PRACTICE PAPER

1. If  $w=18$  then which of the following is equal to  $W_{23}$ ?

116

132

12

164

14

2. It takes no more than 40 minutes to run a race, but at least 30 minutes. What equation will model this in  $m$  minutes?

$|m-35|<5$

$|m-35|>5$

$|m+35|<5$

$|m+35|>5$

$|m-35|=5$

3. Solve the inequality  $6(x-1)<7(3-x)$ .

$x<127$

$x > 1327$

$x > -1117$

$x < 2713$

$x > -1327$

4. Simplify:  $(x^3 * 2x^4 * 5y + 4y^2 + 3y^2)/y$

$10x^7 + 7y$

$10x^7 + 7y^3$

None of the other answers

$10x^7y + 7y^2$

$10x^{11} + 7y^3$

5. Solve for x.

$14x = 256$

256

-4

14

4

-14

6. If one mile is equal to 5,280 feet, how many feet are 100 miles equal to in scientific notation?

$528 \times 10^3$

$5280 \times 10^2$

528,000

$.528 \times 10^6$

$5.28 \times 10^5$

7. If a cash deposit account is opened with \$7500 for a three year period at 3.5% interest compounded once annually, which of the following is closest to the positive difference between the interest accrued in the third year and the interest accrued in the second year?

\$11.41

\$0

\$281.2

\$81.41

\$9.51

8. Let  $x$  and  $y$  be integers such that  $0 \leq x \leq 5$  and  $-4 \leq y \leq -1$ .

Quantity A

$$x - |y|$$

Quantity B

$$0$$

Quantity A is greater

The relationship cannot be determined from the information given

Quantity B is greater

Quantity A and Quantity B are equal

9. Choose the answer which best simplifies the following expression:

$$2p^2 + 3p^2a - 5p^3$$

$$15p - 10pa^6a$$

$$6p^2 + 9p + 10pa^6a$$

$$6p + 9p - 10pa^6a$$

$$6p^2 + 9p - 10p^6$$

$$6p^2 + 9p - 10pa^6a$$

10. Simplify the following:

$$40 - \sqrt{+20} - \sqrt{+160} - \sqrt{\quad}$$

$$10 - \sqrt{(6+2-\sqrt{\quad})}$$

$$810 - \sqrt{\quad}$$

The expression cannot be simplified any further.

$$420\sqrt{\quad}$$

$$5\sqrt{5+22\sqrt{\quad}}$$

11. Simplify:

$$343x^5\sqrt{\quad}\sqrt{49x^3\sqrt{\quad}}$$

$$7x$$

$$x7\sqrt{\quad}$$

$$7x\sqrt{\quad}$$

$$7x$$

$$x7$$

Which is greater, when  $-1 < x < 0$ ?

12. Quantity A

$$|x|$$

Quantity B

$$x^2$$

Quantity B is greater

The two quantities are equal

Quantity A is greater

The relationship cannot be determined from the information given

13. Solve:

$$2315 + 932 =$$

282

14

263

283

Quantity A: 49012

Quantity B: 4056

14. Which of the following is true?

Quantity B is larger.

The relationship of the two quantities cannot be determined based on the information provided.

The two quantities are equal

Quantity A is larger.

15. Flour, eggs, sugar, and chocolate chips are mixed by weight in the ratio of 12 : 5 : 3 : 5,

respectively. How many pounds of chocolate chips are there in 75 pounds of the mixture?

18

5

25

15