GRE Quantitative Reasoning Practice Test-5, 2024

Time Allowed: 1 Hour 58 Minutes | Maximum Marks: 340

General Instructions

Read the following instructions very carefully and strictly follow them:

- 1. There is no penalty for incorrect answers on the Verbal Reasoning and Quantitative Reasoning sections. This means you should always answer every question, even if you have to guess.
- 2. Within any section of the test, you can mark questions you want to review and change your answers as long as the time for that section has not expired.
- 3. The Analytical Writing section is always presented first. The Verbal Reasoning and Quantitative Reasoning sections may appear in any order after the essay.
- 4. The test is taken on a computer, and test-takers are provided with scratch paper or a small whiteboard for notes.
- 5. The Quantitative Reasoning section includes an on-screen calculator.
- 6. There are no breaks during the test. Leaving your seat at any point will not stop the timer for the current section.

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- (A) 5
- (B) 3
- (C) 4
- (D) 2

2. The average (arithmetic mean) of 5, 10, 15, and 20 is:

- (A) 12.5
- (B) 15
- (C) 10
- (D) 13

3. If a car travels 150 miles in 2.5 hours, what is the average speed in miles per hour?

- (A) 50 miles per hour
- (B) 55 miles per hour
- (C) 60 miles per hour
- (D) 65 miles per hour
- 4. Solve for y: 2y 7 = 3y + 4.
- (A) -11
- (B) 11

(01)	_
(C!)	-7
(\bigcirc)	- 1

(D) 7

6. If $f(x) = x^2 - 3x + 2$, find f(2).

- (A) 0
- (B) 2
- (C) -2
- (D) 4
- 7. Expand the expression (x+3)(x-2).
- (A) $x^2 + x 6$
- (B) $x^2 x 6$
- (C) $x^2 + 6x 6$
- (D) $x^2 6x 6$
- 8. If $x^2 = 16$, what are the possible values of x?
- (A) 4
- (B) -4
- (C) 4 or -4
- (D) 0
- 9. What is the area of a triangle with a base of 8 cm and a height of 5 cm?
- (A) $20 \, \text{cm}^2$
- (B) $30 \, \text{cm}^2$
- (C) $40 \, \text{cm}^2$
- (D) $10 \, \text{cm}^2$
- 10. What is the circumference of a circle with a radius of 7 cm?
- $(A) 43.96 \, cm$
- (B) 44.96 cm
- $(C) 40.96 \, cm$
- (D) $38.96 \, \text{cm}$
- 11. Find the length of the hypotenuse of a right triangle with legs of length 6 cm and 8 cm.
- (A) 12 cm
- (B) $10 \, \text{cm}$
- (C) 8 cm
- (D) 6 cm
- 12. What is the volume of a cylinder with a radius of 3 cm and a height of 5 cm?
- (A) $141.3 \, \text{cm}^3$
- (B) $120.5 \, \text{cm}^3$
- (C) $135.5 \, \text{cm}^3$
- (D) $150.5 \,\mathrm{cm}^3$
- 13. The mean of five numbers is 8. If four of the numbers are 7, 9, 12, and 5, what is the fifth number?
- (A) 7
- (B) 8
- (C) 9
- (D) 10
- 14. A survey of 200 people found that 120 like coffee, 150 like tea, and 80 like both. How many people do not like either coffee or tea?
- (A) 10

(B) 20
(C) 30
(D) 40
15. A dataset contains the numbers 5, 7, 9, 11, and 13. What is the median?
(A) 7
(B) 9
(C) 11
(D) 13
16. A jar contains 4 red, 5 blue, and 6 green marbles. If one marble is picked at
random, what is the probability it is blue?
(A) $\frac{1}{3}$ (B) $\frac{5}{15}$ (C) $\frac{4}{15}$ (D) $\frac{2}{5}$
(B) $\frac{5}{15}$
(C) $\frac{4}{15}$
(D) $\frac{2}{5}$
17. Simplify the expression: $3(x-2)+4$.
(A) $3x - 2$
(B) $3x + 2$
(C) $3x - 4$
(D) $3x + 4$
18. If x is directly proportional to y and $x = 10$ when $y = 2$, what is x when $y = 8$?
(A) 30
(B) 40
(C) 50
(D) 60
19. If $2x + 3 = 9$, what is the value of x ?
(A) 1
(B) 2
(C) 3
(D) 4
20. A right triangle has one leg of 5 cm and a hypotenuse of 13 cm. What is the
length of the other leg?
(A) 10cm

- (B) 12 cm (C) 15 cm (D) 14 cm