GRE Quantitative Reasoning Practice Test 1 Question Paper

Time Allowed :1 Hour 58 Minutes	**Maximum Marks :**340	**Total Questions :**54

General Instructions

Read the following instructions very carefully and strictly follow them:

1. The GRE General Test is 1 hour and 58 minutes long (with one optional 10-minute break) and consists of 54 questions in total.
2. The GRE exam is comprised of three sections:
   - Quantitative Reasoning: 27 questions, 47 minutes
   - Verbal Reasoning: 27 questions, 41 minutes
3. You can answer the two sections in any order.
4. As you move through a section, you can skip questions, flag them for review, and return to them later within the same section.
5. When you have answered all questions in a section, you can review your responses before time expires.
6. If there is no time remaining in the section, you will automatically be moved to your optional break screen or the next section (if you have already taken your optional break).
7. Each review screen includes a numbered list of the questions in that section and indicates the questions you flagged.
8. Clicking a question number will take you to that specific question.
9. You may change any answer within the time allowed for that section.

Quantitative Reasoning

1. • **Quantity A: The least prime number greater than 24**
• **Quantity B: The greatest prime number less than 28**

(A) Quantity A is greater.
(B) Quantity B is greater.
(C) The two quantities are equal.
(D) The relationship cannot be determined from the information given.

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2. • **Quantity A: 54% of 360**

• **Quantity B: 150**

(A) Quantity A is greater.
(B) Quantity B is greater.
(C) The two quantities are equal.
(D) The relationship cannot be determined from the information given.

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3. A car got 33 miles per gallon using gasoline that cost $2.95 per gallon. Approximately what was the cost, in dollars, of the gasoline used in driving the car 350 miles?

(A) $10
(B) $20
(C) $30
(D) $40
(E) $50

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4. If $x = 2y + 1$ and $y = 3$, what is the value of x?

(A) 5
(B) 6
(C) 7
(D) 8
(E) 9

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5. Which of the following integers are multiples of both 2 and 3? Indicate all such integers.

(A) 8
(B) 9
(C) 12
(D) 18
(E) 21
(F) 36

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6. One pen costs $0.25 and one marker costs $0.35. At those prices, what is the total cost of 18 pens and 100 markers?

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7. Working alone at its constant rate, machine A produces kkk liters of a chemical in 10 minutes. Working alone at its constant rate, machine B produces kkk liters of the chemical in 15 minutes. How many minutes does it take machines A and B, working simultaneously at their respective constant rates, to produce kkk liters of the chemical?

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8. If the dollar amount of sales at Store P was $800,000 for 2006, what was the dollar amount of sales at that store for 2008?

(A) $727,200
(B) $792,000
(C) $800,000
(D) $880,000
(E) $968,000

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9. At Store T, the dollar amount of sales for 2007 was what percent of the dollar amount of sales for 2008? Give your answer to the nearest 0.1%.

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10. If the ratio of A to B is 3:4 and the ratio of B to C is 5:6, what is the ratio of A to C?

(A) 3:4
(B) 5:6
(C) 15:24
(D) 5:8

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11. Simplify: $3(2x - 3) - 5x$**).**

(A) x-9
(B) x-7
(C) -x-9
(D) -x-7

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12. What is the value of $\frac{2x+1}{x-1}$ **when x=2?**

(A) 5
(B) 6
(C) 4
(D) 7

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13. If a data set has values 4, 8, 6, 5, and 7, what is the median of the data set?

(A) 5
(B) 6
(C) 7
(D) 8

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14. The average of five numbers is 10. If one of the numbers is 12, what is the average of the remaining four numbers?

(A) 9.5
(B) 10
(C) 8
(D) 11

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15. A survey found that 60% of 200 participants preferred coffee over tea. How many participants preferred coffee?

(A) 120
(B) 100
(C) 80
(D) 40

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16. What is the solution to the equation $x^2 - 5x + 6 = 0$?

(A) 1 and 6
(B) 2 and 3
(C) -2 and -3
(D) 1 and 2

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17. What is the greatest common divisor (GCD) of 36 and 60?

(A) 6
(B) 12
(C) 18
(D) 24

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18. If $\frac{a}{b} = \frac{3}{4}$ and b=8, what is a?

(A) 6
(B) 8
(C) 9
(D) 12

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19. If the price of an item is increased by 20% and then decreased by 20%, what is the net percentage change in the price?

(A) 4% decrease
(B) 4% increase
(C) 0%
(D) 20% decrease

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20. In a right triangle, one angle is 30 degrees. What is the measure of the other non-right angle?

(A) 30 degrees
(B) 45 degrees
(C) 60 degrees
(D) 75 degrees
