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GRE Quantitative Reasoning Practice Test 2024 vital for your preparation across verbal, quantitative, and analytical writing sections. Regularly completing online free GRE Quantitative Reasoning Practice Tests enhances your understanding of various question types and improves performance evaluation. The official ETS website offers a range of GRE practice materials, and online courses can further aid in efficient exam preparation. GeeksforGeeks provides Free GRE Quantitative Reasoning Practice Tests and other GRE Quantitative Reasoning Practice Tests, expertly crafted to help you excel. Whether you're starting or fine-tuning skills, our GRE Free Writing Practice Tests are essential for acing the exam. **GRE Quantitative Reasoning Practice Test Question 1:** If $3x+2=11$, what is the value of x ? **Explanation:** Subtract 2 from both sides to get $3x=9$. Then divide both sides by 3 to get $x=3$. **Answer:** $x=3$. **Question 2:** The average (arithmetic mean) of 5, 10, 15, and 20 is: **Explanation:** Add the numbers: $5+10+15+20=50$. Divide by the number of values (4): $50 \div 4 = 12.5$. **Answer:** 12.5. **Question 3:** If a car travels 150 miles in 2.5 hours, what is the average speed in miles per hour? **Explanation:** Divide the total distance by the total time: $150 \div 2.5 = 60$. **Answer:** 60 miles per hour. **Question 4:** Solve for y : $2y-3=4y-5$. **Explanation:** Subtract $2y$ from both sides to get $-3=2y-5$. Then add 5 to both sides to get $2=2y$. Divide both sides by 2 to get $y=1$. **Answer:** $y=1$. **Question 5:** If $2x+3=7$, what is the value of x ? **Explanation:** Subtract 3 from both sides to get $2x=4$. Then divide both sides by 2 to get $x=2$. **Answer:** $x=2$. **Question 6:** If $3x+2=11$, what is the value of x ? **Explanation:** Subtract 2 from both sides to get $3x=9$. Then divide both sides by 3 to get $x=3$. **Answer:** $x=3$. **Question 7:** Expand the expression $(x+3)(x-2)$. **Explanation:** Use the distributive property: $(x+3)(x-2) = x^2 - 2x + 3x - 6 = x^2 + x - 6$. **Answer:** $x^2 + x - 6$. **Question 8:** If $2x+3=7$, what is the value of x ? **Explanation:** Subtract 3 from both sides to get $2x=4$. Then divide both sides by 2 to get $x=2$. **Answer:** $x=2$. **Question 9:** The circumference of a circle with a radius of 7 cm is: **Explanation:** Use the formula for the circumference of a circle: $C = 2\pi r$. $C = 2\pi(7) = 14\pi$. **Answer:** 14π . **Question 10:** Find the length of the hypotenuse of a right triangle with legs of length 3 and 4. **Explanation:** Use the Pythagorean theorem: $c^2 = 3^2 + 4^2 = 9 + 16 = 25$. $c = \sqrt{25} = 5$. **Answer:** 5. **Question 11:** What is the volume of a cylinder with a radius of 3 cm and a height of 5 cm? **Explanation:** Use the formula for the volume of a cylinder: $V = \pi r^2 h$. $V = \pi(3^2)(5) = 45\pi$. **Answer:** 45π . **Question 12:** What is the fifth number in the sequence 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50? **Explanation:** Let the fifth number be x . Then $(17 + (x - 1) + 5) \div 5 = 8$. Simplify to get $(17 + x - 1 + 5) \div 5 = 8$. Multiply both sides by 5 to get $17 + x - 1 + 5 = 40$. Simplify to get $x = 19$. **Answer:** 19. **Question 13:** 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? **Explanation:** Use the principle of inclusion and exclusion: $(120 + 150 - 80) = 190$. Thus, $(200 - 190) = 10$. **Answer:** 10. **Question 14:** A dataset contains the numbers 5, 7, 9, 11, and 13. What is the median? **Explanation:** The median is the middle number in a sorted list. The sorted list is already given: 5, 7, 9, 11, 13. The middle number is 9. **Answer:** 9. **Question 15:** 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? **Explanation:** The total number of marbles is $(4 + 5 + 6) = 15$. The probability of picking a blue marble is $(\frac{5}{15}) = (\frac{1}{3})$. **Answer:** $(\frac{1}{3})$. **Question 16:** Simplify the expression $(x^2 + 3x - 2)(x - 1)$. **Explanation:** Use the distributive property: $(x^2 + 3x - 2)(x - 1) = x^3 - x^2 + 3x^2 - 3x - 2x + 2 = x^3 + 2x^2 - 5x + 2$. **Answer:** $x^3 + 2x^2 - 5x + 2$. **Question 17:** If $2x+3=7$, what is the value of x ? **Explanation:** Subtract 3 from both sides to get $2x=4$. Then divide both sides by 2 to get $x=2$. **Answer:** $x=2$. **Question 18:** A right triangle has one leg of 5 cm and a hypotenuse of 13 cm. What is the length of the other leg? **Explanation:** Use the Pythagorean theorem: $(\sqrt{13^2 - 5^2}) = (\sqrt{169 - 25}) = (\sqrt{144}) = 12$. **Answer:** 12. **Question 19:** Simplify to get $(25 + x^2 = 169)$. Subtract 25 to get $(x^2 = 144)$. Take the square root to get $(x = 12)$. **Answer:** 12. **Question 20:** A right triangle has one leg of 5 cm and a hypotenuse of 13 cm. What is the length of the other leg? **Explanation:** Use the Pythagorean theorem: $(\sqrt{13^2 - 5^2}) = (\sqrt{169 - 25}) = (\sqrt{144}) = 12$. **Answer:** 12. **Question 21:** What is the least common multiple (LCM) of 12 and 15? **Answer:** 60. **Question 22:** Prime factorization of 12: $(12 = 2^2 \times 3)$. Prime factorization of 15: $(15 = 3 \times 5)$. LCM is found by taking the highest power of each prime factor: $(LCM = 2^2 \times 3 \times 5 = 60)$. **Question 23:** If 5 workers can complete a task in 12 days, how many days will it take 15 workers to complete the same task? **Answer:** 4 days. **Question 24:** Work is inversely proportional to the number of workers. If 5 workers take 12 days, the total work is $(5 \times 12 = 60)$ worker-days. For 15 workers, days needed = $(\frac{60}{15}) = 4$ days. **Question 25:** If a car travels at 60 miles per hour, how many miles will it travel in 2.5 hours? **Answer:** 150 miles. **Question 26:** A car travels at 60 miles per hour. How many miles will it travel in 2.5 hours? **Answer:** 150 miles. **Question 27:** A car travels at 60 miles per hour. How many miles will it travel in 2.5 hours? **Answer:** 150 miles. **Question 28:** A car travels at 60 miles per hour. How many miles will it travel in 2.5 hours? **Answer:** 150 miles. **Question 29:** A car travels at 60 miles per hour. How many miles will it travel in 2.5 hours? **Answer:** 150 miles. **Question 30:** A car travels at 60 miles per hour. How many miles will it travel in 2.5 hours? **Answer:** 150 miles. **Question 31:** A car travels at 60 miles per hour. How many miles will it travel in 2.5 hours? **Answer:** 150 miles. **Question 32:** A car travels at 60 miles per hour. How many miles will it travel in 2.5 hours? **Answer:** 150 miles. **Question 33:** A car travels at 60 miles per hour. How many miles will it travel in 2.5 hours? **Answer:** 150 miles. **Question 34:** A car travels at 60 miles per hour. 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