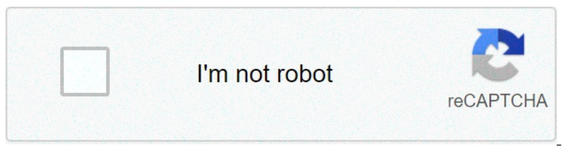


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# Equations and inequalities test

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Simplify - \frac35 + \frac{13}{55} A) -(13/25) B) -(7/17) C) -(13/3) D) -(5/4) E) -(13/25) Answer: E -(13/25) Solution Steps: (1) Multiply the numerators and denominators. (2) Simplify. (3) Divide the numerator and denominator by their GCF, 3. (4)Simplify. Q3. Evaluate 2b(4a- c2) if a = 5, b= \frac32 and c= 11. A) -303 B) 509 C) 1 D) 870 E) -109 Q4. Evaluate m + (n – 1 )2 if m = 3 and n = −4. A) -2 B) 5 C) 20 D) 28 E) -35 Answer: D -28: Solution Steps: (1) Replace m with 3 and n with -4. (2) Add -4 and -1. (3) Find (-5 )2 . (4)Add 3 and 25. Q5. Evaluate m + (n – 1 )2 if m = 3 and n = −4. A) -2 B) 5 C) 20 D) 28 E) -35 Answer: D -28: Solution Steps: (1) Replace m with 3 and n with -4. (2) Add -4 and -1. (3) Find (-5 )2 . (4)Add 3 and 25. Q6. The formula for the surface area of a sphere is A= 4πr2, where r is the length of the radius. Find the surface area of a sphere with a radius of 14 feet. A) 249 ft2 B) 1024 ft2 C) 2464 ft2 D) 7645 ft2 E) 9856 ft2 Answer: C. 2464 ft2 Use π=22/7 Q7. Find the area of the trapezoid shown below. A) 16 square inches B) 130 square inches C) 340 square inches D) 940 square inches E) 1120 square inches Answer: C.340 square inches The formula for the area A of a trapezoid is A = Use formula A = ½ h (b1+b2) Replace h with 10, b1 with 16, and b2 with 52. => A = ½ (10) (16+52) =340 Q8. One side of a triangle is four centimeters longer than the shortest side. The third side of the triangle is twice as long as the shortest side. Find the length of the longest side of the triangle if its perimeter is 40 centimeters. A) 3 cm B) 6 cm C) 9 cm D) 18 cm E) 30 cm Q9. Evaluate – (-10)3 A) -10 B) 0 C) 1 D) 100 E) 1000 Answer: E. 1000 – (-10)3 = -[(-10)(-10)(-10)] (-10 ) = (- (-10)3 means -10 is a factor 3 times) = -[-1000] (Evaluate inside the brackets.) = 1000 (Simplify) Q10. solve this equation A) -27 B) 23 C) -23 D) -12 E) 42 Q11. solve this equation 18= 3 | 4x − 10 | A) {1, -1} B) {1, 4} C) {4, -4} D) {4} E){4, 4} Q12. which expression below represents the amount of change someone would receive from a $50 bill if they purchased 2 children’s tickets at $4.25 each and 3 adult tickets at $7 each at a movie theater. A) 50 – 2 × 4.25 + 3 × 7 B) 50 – (2 × 4.25 + 3 × 7) C) (50 – 2 × 4.25) + 3 × 7 D) (50 – 2 × 4.25) – (3 × 7) E) 50 – (2 × 4.25) + (3 × 7) Answer: B. 50 – (2 × 4.25 + 3 × 7) the sum of the cost of adult and children tickets should be subtracted from 50. Q13. Identify the graph of the solution set of -2.3< 4 + 0.9y Q14. One number is four times a second number. If you take one-half of the second number and increase it by the first number, the result is at least 45. Find the least possible value for the second number. A) 5 B) 10 C) 15 D) 20 E) 25 Q15. Suppose a patient must take a blood pressure medication that is dispensed in 125-milligram tablets. The dosage is 15 milligrams per kilogram of body weight and is given every 8 hours. If the patient weighs 25 kilograms, how many tablets would be needed for a 30-day supply? A) 7 B) 10 C) 15 D) 20 E) 30 Answer: E. 30 Use the formula n = 24d ÷ [8(b × 15 ÷ 125)], where n is the number of tablets, d is the number of days the supply should last, and b is the body weight of the patient in kilograms. Q16. In 1950, the average price of a car was about $2000. This may sound inexpensive, but the average income in 1950 was much less than it is now. Buying a car for $2000 in 1950 was like buying a car for how much money in 2000? A) $5369.05 B) $8266.03 C) $9642.08 D) $4368.50 E) $10215.36 Answer: B $8266.03 To compare dollar amounts over time, use the formula V = S - \fracAS C where A is the old dollar amount, S is the starting year’s Consumer Price Index (CPI), C is the converting year’s CPI, and V is the current value of the old dollar amount. Q17. You count 5 seconds between seeing the light and hearing the sound of the firework display. You estimate the viewing angle is about 4°. Using the information at the left, estimate the width of the firework display. A) 100 ft B) 150 ft C) 200 ft D) 250 ft E) 400 ft Answer: E. 400 ft Use the formula w = 20At. In this formula, A is theestimated viewing angle of the firework display and t is the time in seconds from the instant you see the light until you hear the sound. Q18. Find the value of 1 + 3(5 − 17) ÷ 2 × 6 A) -4 B) -104 C) 109 D) 7 E) -107 Q19. The following are the dimensions of four rectangles. Which rectangle has the same area as the triangle at the right? A) 1.6 ft by 25 ft B) 5 ft by 16 ft C) 3.5 ft by 4 ft D) 0.4 ft by 50 ft E) -4 ft by20 ft Answer: D 0.4 ft by 50 ft Q20. Find the value of this expression 12 − [20 − 2(62 ÷ 3 × 22)] A) 0 B) 1 C) -8 D) -44 E) 88 Download Equations and Inequalities Practice Test Worksheet [PDF] Document Type Download Link Free Editable Doc File Free Printable PDF File The retake test will be on Tuesday, April 12. Practice Test 1 Blank Answers Graphing Worksheet Blank Answers Inequalities Worksheet Blank Answers Practice Test 2 Blank In an equation, the ‘equals’ sign means the two sides are identical. When the two sides are not identical you will need to use inequalities to show the relationship between the two sides. Call Now to Set Up Tutoring: (888) 888-0446

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