Worksheet 4

- 1. A log is 32 feet long. If it is cut into two pieces such that one piece is 6 ft longer than the other, then how long will the longer piece be?
 - A. 32 ft
 - B. 16 ft
 - C. 19 ft
 - D. 26 ft
- 2. The perimeter of a rectangular patio is 72 meters. The length is three times the width. If w represents the width of the patio, which of the following equations expresses the relationship.
 - A. 3w = 72
 - B. 4w = 72
 - C. 8w = 72
 - D. $3w^2 = 72$
- 3. Pablo saves \$36 less than twice what Tony saved. If Pablo saved \$312, how much did Tony save?
 - A. \$138
 - B. \$174
 - C. \$276
 - D. \$348

- 4. Five less than nine times Maria's age is the same as twenty added to six times her age. If *m* represents Maria's age, which equation correctly expresses the relationship described above?
 - A. 5-9m = 20+6m
 - B. (5-9)m = (20+6)m
 - C. 9m-5=6m+20
 - D. 9(m-5) = 6(m+20)
- 5. If 3 is added to five times a number, the result is 9 less than two times the same number. If *x* represents the number, which equation correctly expresses this relationship?
 - A. 3+5x = 9-2x
 - B. 3+5(9-x)=2x
 - C. 5x+3=-9(2x)
 - D. 5x + 3 = 2x 9
- 6. A piggy bank contains a total of \$2.95 in quarters and dimes. There are 9 more quarters than dimes. How many quarters are there?
 - A. 11 quarters
 - B. 2 quarters
 - C. 9 quarters
 - D. 8 quarters

- 7. The sum of two numbers is 47. The first number is 15 more than the second number. Find the first number.
 - A. 16
 - B. 32
 - C. 31
 - D. 8
- 8. A pipe is 80 ft long. It is cut into three pieces such that the middle piece is 5 ft longer than the shortest piece and the longest piece is 10 ft longer than the middle piece. If the length of the shortest piece is *x* feet, which equation correctly expresses this relationship?
 - A. x + x + x = 80
 - B. x+x+5+x+10=80
 - C. x+5+x+15=80
 - D. 3x + 20 = 80
- 9. A car rental agency advertises renting a Toyota Tacoma 4x4 for \$24.95 per day plus \$0.29 per mile. If Juan rented the truck for 2 days, how many whole miles can he drive on a \$100 budget?
 - A. 150 miles
 - B. 172 miles
 - C. 180 miles
 - D. 300 miles

- 10. Solve for y: $\frac{5}{16}y + \frac{3}{8}y = 2 + \frac{1}{4}y$
 - A. $\frac{7}{32}$
 - B. No Solution
 - C. $-\frac{5}{7}$
 - D. $\frac{32}{7}$
- 11. Simplify. $\frac{5-10-5.23}{2^3+3^2-7}$
 - A. –23
 - B. -12
 - C. -15
 - D. -10
- 12. Solve for x: 5(3x-2) = 35
 - A. 8
 - B. -3
 - C. 3
 - D. -8