

Systems of Equations - Day 2
Assignment

Name _____
Date _____ Period _____

MONEY VS. AMOUNT PROBLEMS

1. Monica purchased red bricks at \$2 each and gray bricks for \$3 each. Write a system of equations that could be used to find the number of each type of brick Monica purchased if she spent \$160 on 60 bricks.

Variable: _____ Equation: _____

Variable: _____ Equation: _____

2. The Spanish Club purchased 34 tacos for \$40 to sell for a fundraiser. They purchased chicken tacos for \$1 each and beef tacos for \$1.50 each. Write two equations that would be used to find how many of each type of taco were sold.

Variable: _____ Equation: _____

Variable: _____ Equation: _____

3. Sarah enjoys cutting lawns and charges \$20 for each small lawn and \$30 for each large lawn she mows and trims. Sarah earned \$140 for mowing 6 yards. Write a system of equations that could be used to find how many of each type of lawn Sarah mowed.

Variable: _____ Equation: _____

Variable: _____ Equation: _____

4. Michael bought some tiger fish at \$3 each and some goldfish at \$4 each for his new aquarium. Michael bought a total of 12 fish and spent a total of \$40. Write a system of equation that could be used to find how many of each type of fish Michael purchased.

Variable: _____ Equation: _____

Variable: _____ Equation: _____

NUMBER PROBLEMS

5. One number is 12 less than three times another number. Their sum is 188. Write two equations that would be used to find the two numbers.

Variable: _____ Equation: _____

Variable: _____ Equation: _____

6. Kasey is thinking of two numbers. The sum of the two numbers is -18. Their difference is 38. Write a system of equations that can be used to find the numbers.

Variable: _____ Equation: _____

Variable: _____ Equation: _____

7. Mary is twice as old as her nephew. The sum of their ages is 108. Write a system of equations that could be used to find their ages.

Variable: _____ Equation: _____

Variable: _____ Equation: _____

8. Two times the quantity of x minus y is 6. y is half of x . Write a system of equations that could be used to find the values of x and y .

Variable: _____ Equation: _____

Variable: _____ Equation: _____

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COIN PROBLEMS

9. Manny has \$4.90 in dimes and quarters. He has 7 more dimes than quarters. Write two equations that would be used to find the number of dimes and quarters Manny has.

Variable: _____ Equation: _____

Variable: _____ Equation: _____

10. A cash register contains 53 coins worth \$4.40. They are all nickels and dimes. Write two equations that would be used to find how many nickels and dimes are in the cash register.

Variable: _____ Equation: _____

Variable: _____ Equation: _____

11. A parking meter contains 4 times as many nickels as quarters. The meter contains \$4.05 total. Write two equations that would be used to find how many nickels and quarters are in the parking meter.

Variable: _____ Equation: _____

Variable: _____ Equation: _____

12. In his coin box, Brian has 12 fewer nickels than dimes. The value of his nickels and dimes is \$2.40. Write a system of equations that can be used to find how many nickels and dimes Brian has.

Variable: _____ Equation: _____

Variable: _____ Equation: _____

PERIMETER PROBLEMS

13. The length of a rectangular carpet is 8 feet more than twice the width. The perimeter is 46 feet. Write a system of equations that could be used to find the length and width.

Variable: _____ Equation: _____

Variable: _____ Equation: _____

14. The width of a rectangular swimming pool is 8 feet less than the length. The perimeter of the pool is 104 feet. Write two equations that would be used to find the length and width of the pool.

Variable: _____ Equation: _____

Variable: _____ Equation: _____

15. The perimeter of a rectangle is 78 cm. The length is 7 more than the width. Write two equations that would be used to find the length and width of the rectangle.

Variable: _____ Equation: _____

Variable: _____ Equation: _____

16. The length of a rectangular garden is twice the width. The perimeter of the garden is 96 feet. Write a system of equations that can be used to find the length and the width.

Variable: _____ Equation: _____

Variable: _____ Equation: _____