

Name

MY Homework

Lesson 7

Write Equations

Homework Helper



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Use the numbers in the table to write an equation for each situation. Use x for the unknown.

Sammy's Pets	
Fish	12
Hamsters	4
Dogs	2
Birds	3

The difference between the number of fish and the number of birds is x .

$$12 - 3 = x$$

The total number of pets is x .

$$12 + 4 + 2 + 3 = x$$

Two times the number of hamsters minus x equals the number of dogs.

$$2 \times 4 - x = 2$$

The number of fish grouped equally into three aquariums is x .

$$12 \div 3 = x$$

Practice

Algebra Write an equation to represent each sentence.

1. Five more than 7 shells is s .

$$7 + 5 = s$$

2. Four times as many as 4 pencils is p .

$$4 \times 4 = p$$

3. Half as many as 18 squirrels is x .

$$18 \div 2 = x$$

4. Eleven spoons minus s equals 9 spoons.

$$11 - s = 9$$

Algebra Write an equation to represent each sentence.

5. 3 more than 14 eggs divided into 2 equal groups is e .

$$14 \div 2 + 3 = e$$

7. The total of 13 cherries, 8 more cherries, and 2 more cherries is c .

$$13 + 8 + 2 = c$$

6. 5 boxes of muffins with m number in each box equals 30.

$$5 \times m = 30$$

8. 32 tennis balls shared equally by 4 players plus 3 more is b .

$$32 \div 4 + 3 = b$$



Problem Solving

Mathematical PRACTICE



2 Use Algebra Write an equation using any letter for the unknown.

9. Irving paid for his lunch with a \$10 bill and got \$6 back in change. How much did his lunch cost?

$$\$10 - x = \$6$$

10. Erin's beagle weighs 35 pounds. Her Great Dane weighs twice as much as the beagle plus 2 more pounds. How much does the Great Dane weigh?

$$2 \times 35 + 2 = x$$

Vocabulary Check



11. Explain the difference between an expression and an equation.

Sample answer: An expression does not have an equals sign, but an equation does.

Test Practice

12. Venus bought 3 loaves of bread that have 20 slices each. Then she used 2 slices to make a sandwich. There are b slices left. Which equation represents the situation?

(A) $3 \times 20 - 2 = b$

(C) $(3 \times 20) \div 2 = b$

(B) $3 + 20 - 2 = b$

(D) $3 + 20 - b = 2$