

Name: _____

Variables and Expressions Word Problems

Directions: Write the expression for each word problem.

1. A shelter currently has 18 dogs and y cats. Write an expression for the number of dogs and cats the shelter has.

2. Last year, the shelter found homes for y dogs. This year, they found homes for 17 more dogs than last year. Write an expression for the number of dogs that found homes this year.

3. An order of dog food has p pounds of food in it. Each week, the shelter uses 20 pounds of food. Write an expression for the number of weeks the dog food order will last.



ANSWER KEY

1. A shelter currently has 18 dogs and y cats. Write an expression for the number of dogs and cats the shelter has.

$$18 + y$$

2. Last year, the shelter found homes for y dogs. This year, they found homes for 17 more dogs than last year. Write an expression for the number of dogs that found homes this year.

$$y + 17$$

3. An order of dog food has p pounds of food in it. Each week, the shelter uses 20 pounds of food. Write an expression for the number of weeks the dog food order will last.

$$p/20$$