

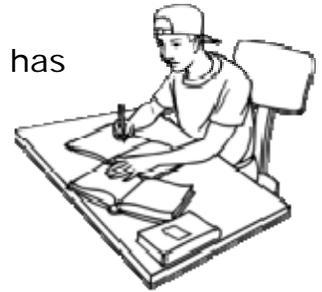
Name _____

Date _____

Using Variables to Represent Two Quantities - Independent Practice Worksheet

Solve the following word problems:

1) This equation shows how the total number of comics Andre has read depends on the number of months he has been a library member.



$$b = 9m$$

The variable m denotes the number of months he has had a membership, and the variable b denotes the number of comics he has read. After 1 month of membership for the library, how many comics will Andrew have read?

- a) 9 books
- b) 7 books
- c) 6 books
- d) 4 books

2) This equation shows how the number of plants Matt has on his farm is related to the number of packets of fertilizer he just bought.

$$f = 3p$$

The variable f represents the number of fertilizer packets he bought, and the variable p represents the total number of plants in the garden. With 6 seed packets of fertilizer, how many total plants can Matt have in his garden?

- a) 3
- b) 8
- c) 15
- d) 18

3) $h = 4a$

The above equation shows how tree height depends on the tree's age. The variable a represents the age and the variable h represents the height of the tree in inches. How tall was the tree when it was 5 years old?

- a) 16
- b) 17
- c) 20
- d) 19



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7) This equation shows the total number of necklaces Louis has as related to the number of diamond necklaces.

$$c = s$$

The variable s represents the number of additional necklaces and the variable c represents the total number of diamond necklaces. If Louis has 3 necklaces in his hand, how many are diamond necklaces?

- a) 2 necklaces
- b) 1 necklace
- c) 3 necklaces
- d) 4 necklaces

8) This equation represents the total number of hockey sticks Ivan has as related to the pucks he has.

$$h = 8p$$

The variable p represents the number of pucks he has and the variable h represents the total number of hockey sticks he owns. If he buys 2 new pucks how many hockey sticks will he buy?

- a) 10
- b) 50
- c) 13
- d) 16

9) $12p = w$

The above equation shows the total number of game CDs Andre has, depends on the money he spent on additional game CDs.

The variable w represents the money he spent on CDs and the variable p represents the total number of game CDs.

If he spent \$60 on games, how many CDs did he get?

- a) 2
- b) 5
- c) 4
- d) 6



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10) This equation shows how the number of dolls made by Judy depends on the number of weeks she has spent making them.

$$I = 4n$$

The variable n represents the number of weeks Judy has spent making dolls. The variable I represents the total number of dolls. After 5 weeks, how many dolls does Judy make in total?

a) 11

b) 5

c) 20

d) 12

