

Reteaching 2-4 Variables and Equations

You earned \$84 at \$6 an hour. Let h be the number of hours you worked.

Can h be 12? Can h be 14?

Write an equation.

Words Rate of pay \cdot Hours worked = Total pay

Equation 6 \cdot h = 84

$$6h = 84$$

Substitute 12 for h .

$$6(12) \stackrel{?}{=} 84$$

$$72 \neq 84$$

No, you did not work 12 hours.

Substitute 14 for h .

$$6(14) \stackrel{?}{=} 84$$

$$84 = 84$$

Yes, you worked 14 hours.

Write an equation. Is the given value a solution?

1. You rode 180 miles at 60 miles per hour. Let t be the time it took. Can t be 4 hours?

2. Ernie scored 8 more points than Mike scored. Ernie scored 20 points. Let p be the number of points Mike scored. Can p be 12?

3. Each person in your class contributed a quart of punch for the school dance. You divided them into gallon containers and got 5 gallons. Let q be the number of quarts you started with. Could q be 20? (*Hint:* There are 4 quarts in a gallon.)

4. You typed a 600 word essay in 12 minutes. Let w be the number of words you can type in one minute. Can w be 60?
