

2-step Equation Word Problems

2/7

* Variable Key Words *

{ - Per
- Each

- Every

- a/an * Not as Common

* Identify your Constant and total
(What's it equal?)

* Don't forget to label

Feb 7-8:49 AM

1. Tim spent half of his allowance going to the movies. He washed the family car and earned nine dollars. What is his weekly allowance if he ended with twelve dollars?

Constant: 9Variable: $x/2$ Total: 12

$$\frac{x}{2} + 9 = 12$$

$$\begin{array}{r} \frac{x}{2} + 9 = 12 \\ -9 \quad | \quad -9 \\ \hline \frac{x}{2} = 3 \end{array}$$

$$2 \cdot \frac{x}{2} = 3 \cdot 2$$

$$x = \$6$$

2. Oceanside Bike Rental Shop charges 11 dollars plus 6 dollars an hour for renting a bike. Tom paid 65 dollars to rent a bike. How many hours did he pay to have the bike checked out?

Constant: 11Variable: $6x$ Total: 65

$$6x + 11 = 65$$

$$\begin{array}{r} 6x + 11 = 65 \\ -11 \quad | \quad -11 \\ \hline 6x = 54 \\ \frac{6x}{6} = \frac{54}{6} \end{array}$$

$$x = 9 \text{ hours}$$

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3. Sam bought a soft drink for two dollars and eight candy bars. He spent a total of eighteen dollars. How much did each candy bar cost?

Constant: 2
 Variable: 8x
 Total: 18

$$\begin{array}{r} 8x + 2 = 18 \\ - 2 \quad - 2 \\ \hline 8x = 16 \\ \frac{8}{8} \quad \frac{16}{8} \end{array}$$

$$x = \$2$$

4. Hermione's Bikes rents bikes for \$10 plus \$4 per hour. Janice paid \$30 to rent a bike. How many hours did she rent the bike?

Constant: 10
 Variable: 4x
 Total: 30

$$\begin{array}{r} 4x + 10 = 30 \\ - 10 \quad - 10 \\ \hline 4x = 20 \\ \frac{4}{4} \quad \frac{20}{4} \end{array}$$

$$4x = \frac{20}{4}$$

$$x = 5 \text{ hours}$$

5. Danielle spent \$35 on a magazine and some notepads. If the magazine cost \$3 and each notepad cost \$4 then how many notepads did she buy?

Constant: 3
 Variable: 4x
 Total: 35

$$\begin{array}{r} 4x + 3 = 35 \\ - 3 \quad - 3 \\ \hline 4x = 32 \\ \frac{4}{4} \quad \frac{32}{4} \end{array}$$

$$x = 8 \text{ notepads}$$

Feb 6-9:13 AM