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Mrs Pullo runs X miles

Joe Suns 2 more than

thow many miles does Joe Run

X + 2

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· Solving for a Variable
· Variable is the unknown
· We ISOLATE the Variable
By using INVERSE
OPERATIONS

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The Order of Things

$$2x + 4(x+3)-x = 20x + 2$$

1. Distribute

 $2x + 4x + 12-x = 20x + 2$ 

2. Combine Like Terms on the same side of rgual syn

 $5x + 12 = 20x + 2$ 

3. Inverse Operations

 $5x + 1a = 20x + 2$ 
 $5x + 1a = 20x + 2$ 
 $12 = 15x + 2$ 
 $10 = 15x$ 
 $10 = 15x$ 

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$$\begin{array}{c}
1. \ r \rightarrow 4 = -8 \\
+ + + + + \\
\hline
r = -4
\end{array}$$

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2. 
$$\frac{5}{12} = s - \frac{11}{12}$$

$$\frac{+11}{12} + \frac{1}{12}$$

$$\frac{16}{12} = S$$

$$\frac{4}{3} = S$$

$$\frac{4}{3} = S$$

$$\frac{14}{7} = 2^{\frac{2}{7}}$$

$$3^{\frac{4}{5}} = \frac{19}{5}$$

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3. 
$$8y = 4$$

**4.** 
$$126 = -9q$$

**5.** 
$$\frac{2}{5}m = 16$$

**6.** 
$$\frac{15}{16}c = \frac{25}{48}$$

7. A person's weight on Venus is about <sup>9</sup>/<sub>10</sub> his or her weight on Earth. Write and solve an equation to find how much a person weighs on Earth if he or she weighs 108 pounds on Venus.

$$1.7 - 3 = \frac{m}{2}$$

$$21 = m$$

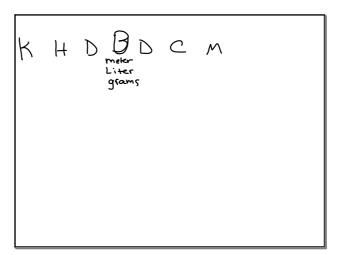
$$m = 21$$

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$$\frac{2. \quad \times_{100} = .028}{100 \times 2.8} = .028 (100)$$

$$\times = 2.8$$



$$\lambda = \frac{3}{4}$$

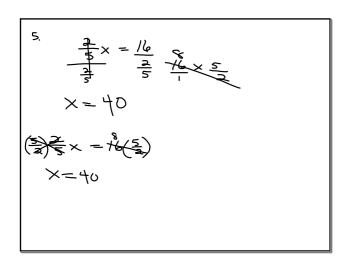
$$\frac{81}{4} = \frac{8}{4}$$

$$\frac{|3^{3}|}{-9} = \frac{-93}{-9}$$

$$-17 = 9$$

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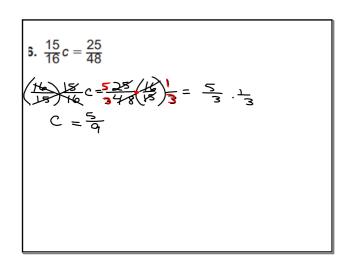
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$$\frac{2}{3} \cdot \frac{108}{3}$$
 $\frac{2}{36} = 72$ 

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7. A person's weight on Venue 15 about  $\frac{9}{10}$  his or her weight on Earth. Write and solve an equation to find how much a person weighs on Earth if he or she weighs 108 pounds on Venus.

$$\frac{2}{7}(14)$$

$$\frac{2}{7}\frac{14}{1} = \frac{28}{7} = 4$$

$$\frac{2}{71}\cdot\frac{14}{1} = 4$$

$$\frac{2}{7}(14) = 4$$

$$\frac{2}{7}(14) = 4$$

$$\frac{2}{7}(14) = 15$$

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