



Warm Up Grade 8

Test May 9

April \_\_, 2019

One-third of the team's supply of hockey pucks was taken from the locker room to the bench. During the game, 5 pucks were caught by fans. At the end of the game, there were 7 pucks left at the bench. What was the team's original supply of pucks?

a) Write an equation you can use to solve the problem

b) Solve the equation

c) Verify the solution

$P \equiv$  teams supply of hockey pucks

$$\frac{P}{3} - 5 = 7$$

$$\frac{P}{3} - 5 + 5 = 7 + 5$$

$$\frac{P}{3} = 12$$

The original # of pucks was 36.

$$3 \times \frac{P}{3} = 12 \times 3$$

$$P = 36$$

c)  $\frac{P}{3} - 5 = 7$

LHS RHS

$P = 36$

$$\frac{P}{3} - 5$$

$$RHS = 7$$

$$\frac{36}{3} - 5$$

$$12 - 5$$

$$7$$

Same

LHS = RHS

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#1, 2 - Discuss

3a)  $\frac{t}{5} = 6$

$$\frac{t}{5} \times 5 = 6 \times 5$$
$$t = 30$$

LS  
 $\frac{t}{5}$   
30  
5  
6

RS  
6

b)  $\frac{a}{7} = 8$

$$\frac{a}{7} \times 7 = 8 \times 7$$
$$a = 56$$

LS  
 $\frac{a}{7}$   
56  
7  
8

RS  
8

c)  $\frac{b}{6} = 3$

$$\frac{b}{6} \times 6 = 3 \times 6$$
$$b = 18$$

LS  
 $\frac{b}{6}$   
18  
6  
3

RS  
3

d)  $\frac{c}{3} = 9$

$$\frac{c}{3} \times 3 = 9 \times 3$$
$$c = 27$$

LS  
 $\frac{c}{3}$   
27  
3  
9

RS  
9

$$4 \text{ a) } \frac{d}{4} = 5$$

$$\frac{d}{4} \times 4 = 5 \times 4$$

$$d = 20$$

$$\begin{array}{l} \text{LS} \\ \frac{d}{4} = 5 \\ \frac{d}{4} \cdot \frac{4}{4} = \frac{20}{4} \\ \frac{d}{4} = 5 \end{array}$$

$$\begin{array}{l} \text{RS} \\ 5 \end{array}$$

$$\text{b) } \frac{f}{8} = -5$$

$$\frac{f}{8} \times 8 = -5 \times 8$$

$$f = -40$$

$$\begin{array}{l} \text{LS} \\ \frac{f}{8} = -5 \\ \frac{f}{8} \cdot \frac{8}{8} = \frac{-40}{8} \\ \frac{f}{8} = -5 \end{array}$$

$$\begin{array}{l} \text{RS} \\ -5 \end{array}$$

$$\text{c) } \frac{k}{9} = -4$$

$$\frac{k}{9} \times 9 = -4 \times 9$$

$$k = -36$$

$$\begin{array}{l} \text{LS} \\ \frac{k}{9} = -4 \\ \frac{k}{9} = \frac{-36}{9} \\ \frac{k}{9} = -4 \end{array}$$

$$\begin{array}{l} \text{RS} \\ -4 \end{array}$$

$$\text{d) } \frac{m}{5} = -7$$

$$\frac{m}{5} \times 5 = -7 \times 5$$

$$m = -35$$

$$\begin{array}{l} \text{LS} \\ \frac{m}{5} = -7 \\ \frac{m}{5} = \frac{-35}{5} \\ \frac{m}{5} = -7 \end{array}$$

$$\begin{array}{l} \text{RS} \\ -7 \end{array}$$

5  $b = \#$  golf balls in bag

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

$$\frac{b}{4} \times 4 = 8 \times 4$$

$$b = 32$$

$$\begin{array}{l} \text{LS} \\ \frac{b}{4} \\ \frac{32}{4} \\ = 8 \end{array}$$

$$\begin{array}{l} \text{RS} \\ 8 \end{array}$$

There are 32  
golf balls in the bag.

b.  $n =$  the number

$$\text{a) } \frac{n}{6} = 9$$

$$\frac{n}{6} \times 6 = 9 \times 6$$

$$n = 54$$

$$\begin{array}{l} \text{LS} \\ \frac{n}{6} = \frac{54}{6} \\ = 9 \end{array}$$

$$\begin{array}{l} \text{RS} \\ 9 \end{array}$$

$$\text{b) } \frac{n}{-4} = -3$$

$$\frac{n}{-4} \times -4 = -3 \times -4$$

$$n = +12$$

$$\begin{array}{l} \text{LS} \\ \frac{n}{-4} = \frac{12}{-4} \\ = -3 \end{array}$$

$$\begin{array}{l} \text{RS} \\ -3 \end{array}$$

$$\text{c) } \frac{n}{-5} = 7$$

$$\frac{n}{-5} \times -5 = 7 \times -5$$

$$n = -35$$

$$\begin{array}{l} \text{LS} \\ \frac{n}{-5} = \frac{-35}{-5} \\ = 7 \end{array}$$

$$\begin{array}{l} \text{RS} \\ 7 \end{array}$$

$$7. a) \frac{n}{4} + 3 = 10$$

$$\frac{n}{4} + 3 - 3 = 10 - 3$$

$$\frac{n}{4} = 7$$

$$\frac{n}{4} \times 4 = 7 \times 4$$

$$n = 28$$

$$\begin{array}{l} \text{LS} \\ \frac{n}{4} + 3 \\ \frac{28}{4} + 3 \\ 7 + 3 \\ 10 \end{array} \qquad \begin{array}{l} \text{RS} \\ 10 \end{array}$$

$$b) \frac{m}{3} - 2 = 9$$

$$\frac{m}{3} - 2 + 2 = 9 + 2$$

$$\frac{m}{3} = 11$$

$$\frac{m}{3} \times 3 = 11 \times 3$$

$$m = 33$$

$$\begin{array}{l} \text{LS} \\ \frac{m}{3} - 2 \\ \frac{33}{3} - 2 \\ 11 - 2 \\ 9 \end{array} \qquad \begin{array}{l} \text{RS} \\ 9 \end{array}$$

$$c) 13 + \frac{x}{2} = 25$$

$$13 + \frac{x}{2} - 13 = 25 - 13$$

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

$$\frac{x}{2} \times 2 = 12 \times 2$$

$$x = 24$$

$$\begin{array}{l} \text{LS} \\ 13 + \frac{x}{2} \\ 13 + \frac{24}{2} \\ 13 + 12 \\ 25 \end{array} \qquad \begin{array}{l} \text{RS} \\ 25 \end{array}$$

$$d) -9 + \frac{s}{2} = 2$$

$$-9 + \frac{s}{2} + 9 = 2 + 9$$

$$\frac{s}{2} = 11$$

$$\frac{s}{2} \times 2 = 11 \times 2$$

$$s = 22$$

$$\begin{array}{l} \text{LS} \\ -9 + \frac{s}{2} \\ -9 + \frac{22}{2} \\ -9 + 11 \\ 2 \end{array} \qquad \begin{array}{l} \text{RS} \\ 2 \end{array}$$

Write an equation for the following and solve

a) one-fourth of the elementary school went on a trip with 3 chaperones. There was 90 people on the trip. How many elementary students are there in all?

let  $e = \#$  of total elementary students

$$\frac{e}{4} + 3 = 90$$

$$\frac{e}{4} = 87 \quad e = 348$$

b) A number divided by 5 is subtracted from 8 is 14

$$8 - \frac{n}{5} = 14$$

$$8 - \frac{n}{5} = 14 - 8$$

$$5 \times \left( -\frac{n}{5} \right) = 6 \times 5$$

$$\frac{-n}{-1} = \frac{30}{-1}$$

$$n = -30$$

# Class/Homework

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# 8, #9, #12, #13ab

Test May 10

Need more #11

Read Page 338-34

&

Sheet Extra Practice 3

# 1, #2, #3, #4, #5, #6



## Attachments

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Extra Practice 3 Involving Fractios.pdf