



Warm Up Grade 8

April 18, 2018

Test April 24

$$\frac{1}{3}t - 5 = 7$$

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?

let "t" represent team's original supply of pucks

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

$$\frac{1}{3}t - 5 = 7$$

S.A.M.D.E.B

b) Solve the equation

The team had 36 pucks to begin with.

c) Verify the solution

check

LS	}	RS
$\frac{t}{3} - 5$		7
$\frac{36}{3} - 5$		
12 - 5		
7		same

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

$$\frac{t}{3} - \cancel{5} = 7 + 5$$

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

$$\cancel{3} \cdot \frac{t}{\cancel{3}} = 12 \cdot 3$$

$$t = 36$$

pg 336

#1, 2 - Discuss

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

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

$$t = 30$$

$$\begin{array}{r} \text{LS} \\ \frac{t}{5} \\ \hline 30 \\ \hline 5 \\ 6 \end{array}$$

$$\begin{array}{r} \text{RS} \\ 6 \end{array}$$

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

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

$$a = 56$$

$$\begin{array}{r} \text{LS} \\ \frac{a}{7} \\ \hline 56 \\ \hline 7 \\ 8 \end{array}$$

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

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

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

$$b = 18$$

$$\begin{array}{r} \text{LS} \\ \frac{b}{6} \\ \hline 18 \\ \hline 6 \\ 3 \end{array}$$

$$\begin{array}{r} \text{RS} \\ 3 \end{array}$$

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

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

$$c = 27$$

$$\begin{array}{r} \text{LS} \\ \frac{c}{3} \\ \hline 27 \\ \hline 3 \\ 9 \end{array}$$

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

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

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

$$d = -20$$

$$\begin{array}{r} \text{LS} \\ \frac{d}{-4} = 5 \\ \frac{d}{-4} \cdot \frac{-4}{-4} \\ \hline \end{array}$$

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

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

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

$$f = -40$$

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

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

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

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

$$k = -36$$

$$\begin{array}{r} \text{LS} \\ \frac{k}{9} = -4 \\ \frac{k}{9} \cdot \frac{9}{9} \\ \hline \end{array}$$

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

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

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

$$m = 35$$

$$\begin{array}{r} \text{LS} \\ \frac{m}{-5} = -7 \\ \frac{m}{-5} \cdot \frac{-5}{-5} \\ \hline \end{array}$$

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

5 $b = \# \text{ golf balls in bag}$

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

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

$$b = 32$$

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

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

There are 32
golf balls in the bag.

b. $n = \text{the number}$

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

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

$$n = 54$$

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

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

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

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

$$n = +12$$

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

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

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

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

$$n = -35$$

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

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

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

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

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

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

$$n = 28$$

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

$$\begin{array}{r} \text{RS} \\ 10 \end{array}$$

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

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

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

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

$$m = 33$$

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

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

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

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

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

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

$$x = 24$$

$$\begin{array}{r} \text{LS} \\ 13 + \frac{x}{2} \end{array}$$

$$13 + \frac{24}{2}$$

$$13 + 12$$

$$25$$

$$\begin{array}{r} \text{RS} \\ 25 \end{array}$$

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

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

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

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

$$s = 22$$

$$\begin{array}{r} \text{LS} \\ -9 + \frac{s}{2} \end{array}$$

$$-9 + \frac{22}{2}$$

$$-9 + 11$$

$$2$$

$$\begin{array}{r} \text{RS} \\ 2 \end{array}$$

Class/Homework

pg. 336

8(a,c), #9a, #12, #13a

Test April 24

$$\frac{n}{-3} + 1 = 6$$

&

Sheet Extra Practice 3

2 ,#3, #4 ,#5



Attachments

Extra Practice 3 Involving Fractios.pdf