

Test ____

ATTACHED to yesterday's sheets

One-third of the team's supply of hockey pucks were 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 X = the original supply of pucks.

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

c) Verify the solution

$$\frac{12}{3} \times \frac{1}{3} - 5 = 7$$

$$\frac{2}{3} - 545 = 7 + 5$$

$$\frac{2}{3} = 12$$

$$\frac{2}{3} = 12$$

The team's original supply of puck was 36.

$$30) \frac{\pm}{5} = 6$$

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

$$\pm = 30$$

b)
$$\frac{f}{4} = -5$$

 $f \times g = -5 \times 8$
 $f = -40$

$$4 = -4$$
 $4 \times 9 = -4 \times 9$
 $1 = -36$

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

 $\frac{m}{-5} = .7x - 5$
 $m = .35$

There are 32 golf bolls in the bag.

$$\frac{n}{6} = 9$$
 $\frac{n}{6} = 9 \times 6$
 $\frac{n}{6} = 9 \times 6$
 $\frac{n}{6} = 54$

$$\frac{1}{4}x^{-4} = -3x^{-4}$$
 $n = +12$

$$\frac{15}{-5} = \frac{-35}{-5}$$
=7

7.
$$\frac{1}{4}$$
 $\frac{1}{3}$ \frac

Write an equation for the following and solve

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

let
$$x = \#$$
 of elementary Students
$$\frac{x}{4} + 3 = 90$$

$$\frac{x}{4} + 3^{-3} = 90 - 3$$

$$\frac{x}{4} = 87$$

$$4x = 87 \times 4$$

$$2 = 348$$
The were 348 Students on the trip.

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

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

$$-\frac{\chi}{5} = 6$$

$$-\frac{\chi}{5} = 6$$

$$-\frac{\chi}{5} = 6.5$$

$$-\chi = 30$$

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

$$\chi = -30$$

Denominator as Variable

What if we have a fraction with the variable as the denominator?

$$20 + 7 = 12$$

Χ

Step1: Get rid of add or subtract first by doing the opposite

$$20 + 7 - 7 = 12 - 7$$

 $\boldsymbol{\alpha}$

 \boldsymbol{x}

Step 2: Bring the variable to the top by multiplying each side by that variable.

$$x \times 20 = 5 \times x$$

 \boldsymbol{x}

$$20 = 5_{x}$$

5 5

Step 3: Get the variable alone by dividing each side by the number in front to x.

Bass/Homework

Quiz Tomorrow

pg. 336

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8, #9, #12, #13ab

Test

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Need more #11 Read Page 338-341

Sheet Extra Practice 3

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

Extra Practice 3 Involving Fractios.pdf