

Homework Solutions

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#2 e) $\frac{1}{4}c - 7 = \frac{1}{2}c + 3$ $\text{LCM} = 4$

$$\begin{array}{r} c - 14 = 2c + 3 \\ -c - 14 = 3 \\ -c = 3 + 14 \\ -c = 17 \\ c = -17 \end{array}$$

f) $4.5(1.2 - m) = 2.4(-2m + 2.1)$

$$\begin{array}{r} 5.4 - 4.5m = -4.8m + 5.04 \\ 0.3m = -0.36 \\ m = -1.2 \end{array}$$

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13 f) $-8 = \frac{7}{c}$ get c on top
1st Multiply both
sides by c

verify $-8c = 7$

Ls Rs $c = -\frac{7}{8}$

$$-8 = \frac{7}{c}$$

$$-8 = \frac{7}{(-\frac{7}{8})}$$

$$-8 = -8$$

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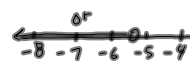
11. a) $x \leq -5$

b) $x < 1$

c) $x > 3.5$

d) $x \geq 1\frac{2}{3}$

12. a) 

or 

b) 

Practice with Fractions

1) $\frac{x}{3} - 10 = \frac{2}{3}$ 2) $\frac{-9}{8} = -8 + \frac{r}{8}$

3) $2 - \frac{11}{3}x = -\frac{3}{4}$ 4) $\frac{4}{3}x - \frac{8}{5} = \frac{7}{5}$

Name

Review

April 3

WRITING EQUATIONS AND INEQUATIONS TO SOLVE PROBLEMS

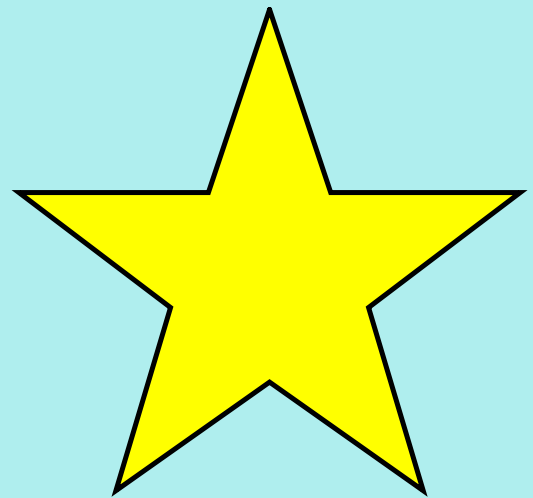
"gives"

"is"

"results in"

"is the same as"

"gives a result of"



HOW TO WRITE EQUATIONS TO SOLVE PROBLEMS:

- 1. THINK: What information is important?**
- 2. PLAN AND DO: Identify the unknowns with a variable; make an equation and solve it.**
- 3. LOOK BACK: Check your answer(s). Are all of the conditions of the problem satisfied?**

Word Problems Using Percentage

For problems always change the percentage to a decimal:

28% =

65% =

8% =

0.5% =

11.5% =

6% =

1) 20% of a number is \$16.80.

Write an equation to determine the number and solve.

Verify.

2) Peter works in sales, his monthly salary is \$2000 and he receives 9% commission on sales. If he earned \$3800 in March, how much were his sales?

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Using two equations to help solve a problem.

These problems need you to create an two equations and compare them, using = or sometimes < and >.

"x" equals the number of minutes you use.



A cell phone company offers two plans.

Plan A : 120 free minutes,
\$0.75 per additional minute

Plan B : 30 free minutes,
\$0.25 per additional minute

$$0.25(x-30)$$

Which time for calls will result in the same cost for both plans?

a) Model the problem with an equation

b) Solve the problem.

c) Verify the problem

a)

Plan A



$$b) \quad 0.75(x-120) = 0.25(x-30)$$

distribute through brackets

$$0.75x - 120(0.75) =$$

$$0.75x - 90 = 0.25x - 7.5$$

$$0.75x - 90 - 0.25x = 0.25x - 0.25x - 7.5$$

$$0.75x - 0.25x - 90 + 90 = -7.5 + 90$$

$$0.75x - 0.25x = -7.5 + 90$$

$$0.5x = 82.5$$

$$\frac{0.5x}{0.5} = \frac{82.5}{0.5}$$

$$x = 165$$

A business must choose a company to print brochures.
Company A charges \$900 plus \$0.50 a copy
Company B charges \$1500 plus \$0.38 a copy

1) Which company would I go with if I wanted very few copies?

2) How many brochures must be printed for both companies to be the same? (Make two equations first)

3) How many brochures would I need to make company B a better deal than company A?

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pg 311 #1
pg 282 #18

For shapes, you must know how to find perimeter, area and volume.

perimeter of a rectangle=

area of a rectangle=

volume of a rectangle=

**The perimeter of a rectangle is 48 cm.
The length is 4 cm less than three times
the width. Find the length of each side.**

more questions to come Wednesday

