Chapter 5 section 6 Equations with Decimals

To Solve equation with decimals, one uses the same method as solving with whole numbers.

Example: To Solve: x - 1.3 = -2.6use the same procedure as solving: x - 13 = -26Solve: $\frac{x}{0.35} = 4.2$ use the same procedure as solving; $\frac{x}{2} = 4$ Solve: -1.2x = -4.08use the same procedure as solving: 2x = 5Solve: -3.8x - 1.7 = -17.28 same procedure as solving: -3x - 1 = -17Combine like terms. Simplify: -3.2x + 1.16xsame procedure as simplifying -3x + 2x4.2 - 3.1x + 2x = -7.02Distributive property -6.3x - 0.4(x - 1.2) = -0.86Round the answer to the nearest tenth. 3.1x + 4.6 = 2.5 - 2.2x

Area of a rectangle Area = base • height

Example 9: page 416

Molly needs to create a rectangular garden plot covering 200 square meters ($200 m^2$). If the width of the plot is 8.9 meters, find the length of the plot correct to then nearest tenth of a meter.

a) Set up a variable dictionary.

Statement: Let L = length of the plot

Draw a diagram to represent the information

A = 200
$$m^2$$
 8.9 m

b) Set up an equation:

c) Solve the equation

d) Answer the question.

e) Look back (check)

Example 10: page 417

Children's tickets to the circus go o sale for \$6.75. The boys and Girls club of eureka has \$1000 set aside to purchase these tickets. Approximately how many tickets can the Girls and Boys club purchase?

Circle: Area: πr^2 Circumference: $2\pi r$ or πd