

Read all directions carefully and SHOW ALL WORK. Make sure to include units, if necessary.

- 1.) In their last game of the season, Elijah has made 5 out of 8 shots so far, and Chase has made 9 out of 12 shots. Which player should shoot the final deciding shot of the game?

- 2.) Find the area and circumference of a circle that has a radius of 11 cm.

A =

C =

- 3.) Find the area and circumference of a circle that has a diameter of 10 feet.

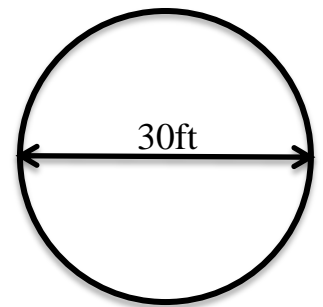
A =

C =

- 4.) The cost of 14 gallons of gas is \$33.46.
 - a. How much gas could you buy with \$26.29?

 - b. How much would it cost to buy 9 gallons?

- 5.) Jacob is making a circular vegetable garden. He needs to put a fence around the garden to keep the rabbits from eating everything. How much fencing will he need? Explain.



- 6.) Solve.

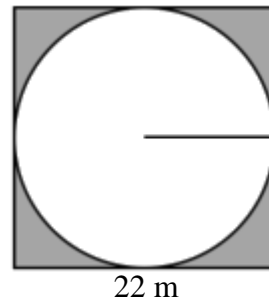
a. $\frac{4}{7} = \frac{x}{28}$

b. $\frac{6}{7} = \frac{18}{y}$

c. $\frac{3}{10} = \frac{x}{25}$

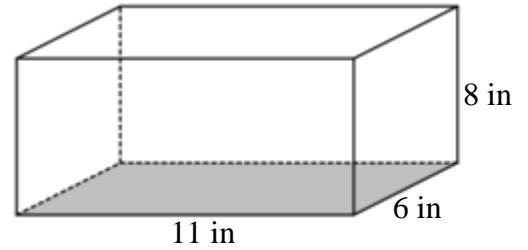
d. $\frac{6}{11} = \frac{21}{y}$

7.) What is the area of the shaded region in the figure?



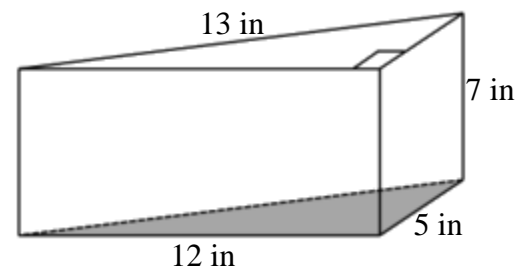
8.) A shoebox is shown here.

- What is the area of the shaded region along the bottom of the box?
- What is the volume of the box?
- What is the surface area of the box?



9.) A right triangular prism is shown here.

- What is the area of the shaded region?
- What is the volume of the prism?
- What is the surface area of the prism?



10.) Solve each equation.

a. $-18 - 6x = 6 + 18x$

b. $8x - 6 - 8 = 4 + 2x$