Name:_____   Period:_____   Date Given: **2-9-18**
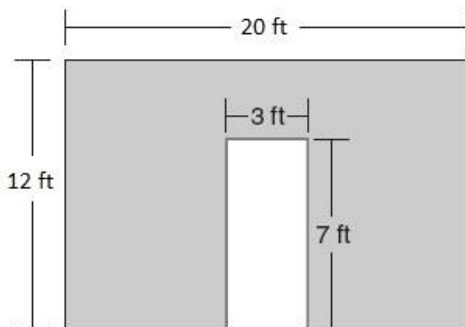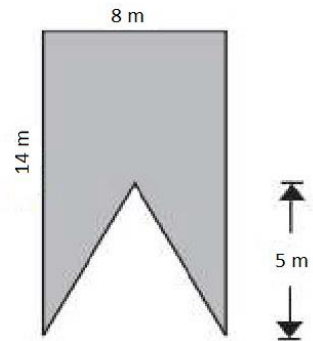
<u>Week 23:</u> 7th Grade Pre-AP Math Homework – Due Friday February 16th

1. Tony purchased a circular tablecloth for his dining room table. The diameter of the tablecloth is 22 feet. What is the approximate area of the tablecloth?
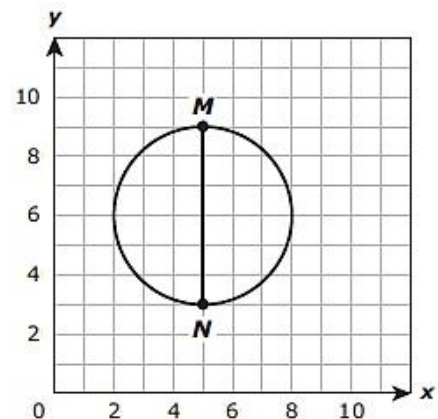
2. A new banner was designed for the school's football team. The shape of the banner is modeled below. Find the area in meters of the banner.

8 m

14 m

5 m

20 ft

3 ft

12 ft

7 ft

3. Joe wants to paint a wall but not the door on the wall. How many square feet of wall does Joe need to paint?
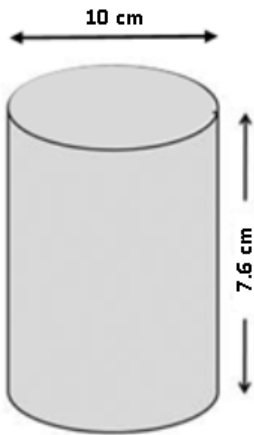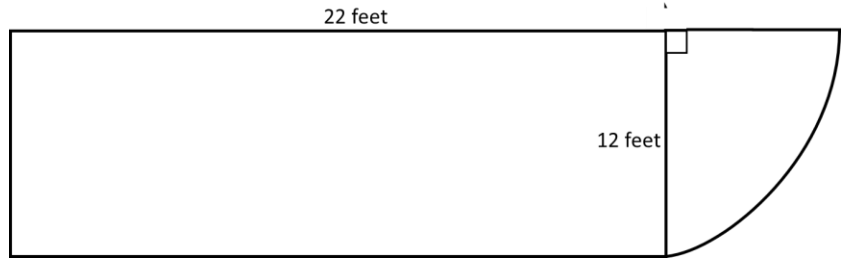
4. Line segment NM passes through the center of the circle shown on the coordinate grid below.

   What is the circumference of this circle?

5. A soda company designed a label to completely cover the lateral surface area of a cylindrical can without any overlap. The can is $12\frac{1}{2}$ inches tall and 6 inches in diameter. What is the area of this new label?

6. A baseball has a diameter of 14 centimeters. What is the volume of the ball?
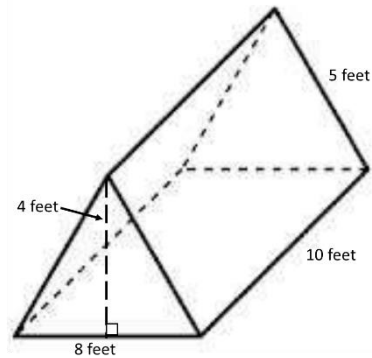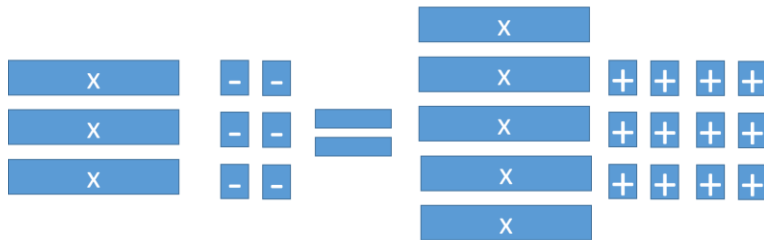
7. What is the total area of the composite figure?

22 feet

12 feet

10 cm

7.6 cm

8. Students use a cylinder full of solution for a science experient. The dimensions of the cylinder are shown below.

What is the volume of the container in cubic centimeters?

9. What is the total surface area of the triangular prism?

5 feet

4 feet

10 feet

8 feet

10. Solve the equation modeled below.

X

X   − −   X   + + + +
X   − −   X   + + + +
X   − −   X   + + + +
                     X

11. $4x + 10 = 2x - 14$

12. $7x + 13 = 6x + 41$