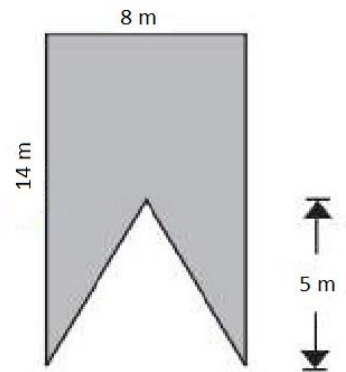Name:_____   Period:_____   Date Given: **2-9-18**
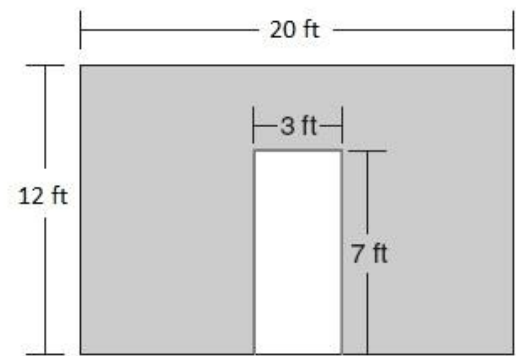
Week 23: 7th Grade Math Homework – Due Friday February 16th

1. 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.
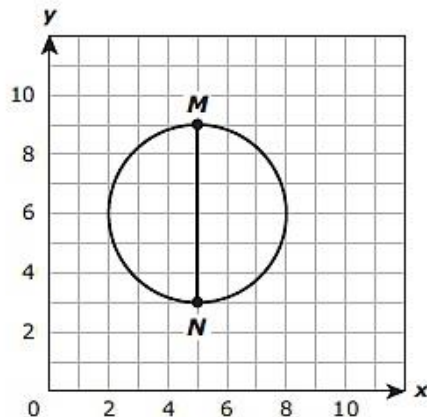
2. Joe wants to paint a wall but not the door on the wall. How many square feet of wall does Joe need to paint?

3. Tony purchased a circular tablecloth for his dining room table. The diameter of the tablecloth is 11 feet. What is the area of the tablecloth?
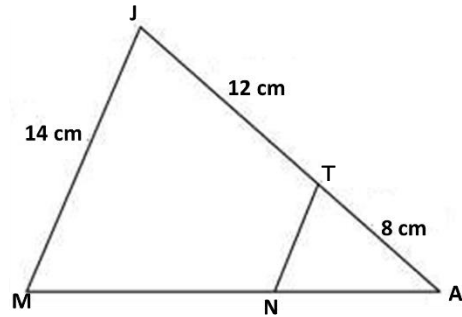
4. Line segment NM passes through the center of the circle shown on the coordinate grid below.

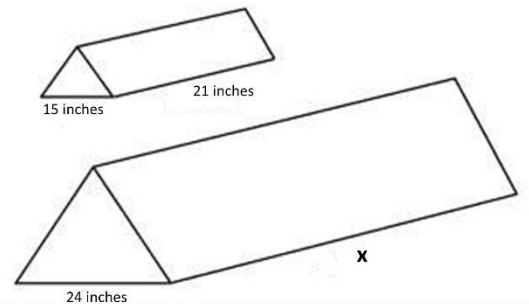   What is the circumference of this circle?

5. Triangle JAM is similar to Triangle TAN.

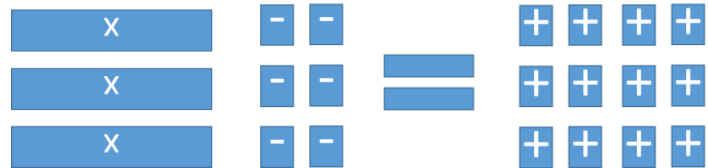   What is the length of line segment NT?

14 cm
12 cm
T
8 cm
J
M
N
A

6. The bases of the two similar triangular prisms shown below are equilateral triangles.

   What is the value of x, an edge length of the larger prism in inches?

21 inches
15 inches
24 inches
x

7. Solve the equation modeled to the right.

8. $\dfrac{x}{7} - 12 = -3$

9. $38 = 8x - 2$

10. Micah increased her scoring in her basketball game from 28 points to 42 points. By what percentage did Micah increase her scoring?

11. The number of parents attending the volleyball game dropped from 140 to 110. By what percentage did the attendance decrease?

12. Joann buys a new pair of shoes for $64.50 and a pair of socks for $12. The sales tax rate is 6%. What is the total cost Joann will pay for the items?