Name:_____   Period:_____   Date Given: **1-25-18**
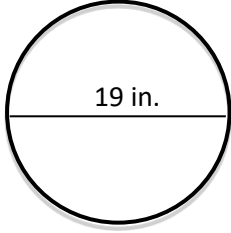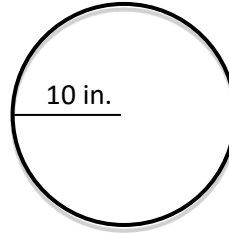
Week 21: 7th Grade Pre-AP Math Homework – Due Thursday February 1st

Section 1 – Circumference of Circles

1. Find the circumference of the circle.

    19 in.

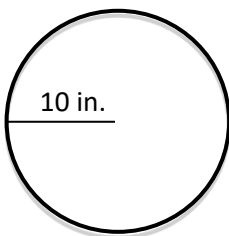2. Find the circumference of the circle.

    10 in.

3. What is the distance around a circular clock if the diameter is 17 inches?
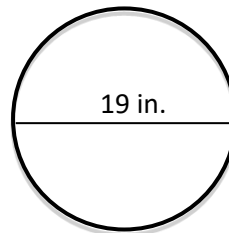
4. If the circumference of the center circle for a basketball court is 37.68 feet. What is the radius?

Section 2 – Area of Circles

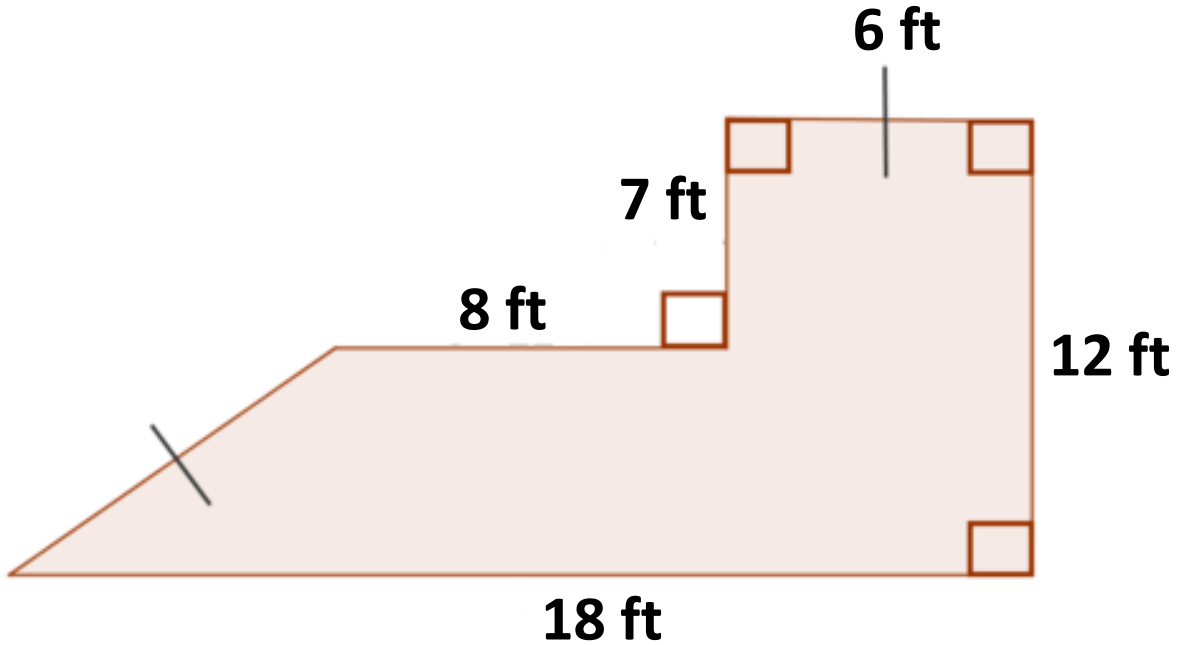5. Find the area of the circle.

    10 in.

6. Find the area of the circle.

    19 in.

7. What is the area of a circular clock if the diameter is 18 inches?

8. If the area of the center circle for a basketball court is 113.04 feet. What is the radius?

6 ft

7 ft

8 ft

12 ft

18 ft

Bianca has a bathroom in her house that needs new tile. She wants to purchase new tile herself in order to save some money, but she doesn't know how much to buy or how much it will cost. Help Bianca figure out how much new tile to purchase and how much it is going to cost.

9. What three shapes make up this composite figure?
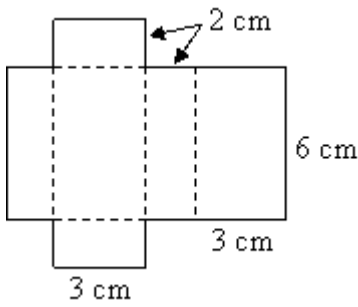   *Draw lines on the original drawing and label any missing measurements.*

10. What are the areas of the three shapes?
    List each shape with the corresponding area of the shape.

11. What is the total area of the bathroom?

12. If the tile cost $2 per square foot, how much will her tile cost?
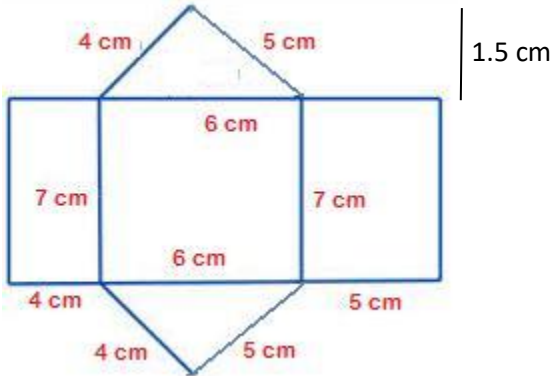   **(Show work below)**

13. What is the surface area of the rectangular prism shown below?

2 cm

6 cm

3 cm

3 cm

14. Mrs. Ayer is painting the outside of her son's toy box, including the top and bottom. The toy box measures 3 feet long, 1.5 feet wide, and 2 feet high. What is the total surface area she will paint?

15. Find the surface area of the following triangular prism.

4 cm   5 cm   1.5 cm

6 cm

7 cm   7 cm

6 cm

4 cm   5 cm

4 cm   5 cm

16. A triangular prism has a triangular end with a base of 6 feet and a height of 8 feet. The length of each side is 12 feet and the width of each side is 8 feet. What is the surface area of the prism?