

HW 6-1

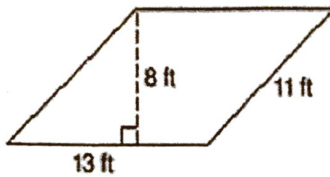
Int 1

Area of Polygons

Unit 6

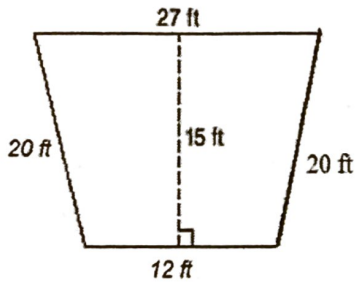
Instructions: Find the area of each polygon using the information provided. Round all of your answers to the tenths place. Don't forget to label your answers with the appropriate unit of measure. ***SHOW YOUR WORK FOR EACH PROBLEM!***

1.



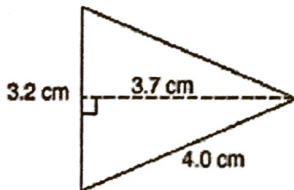
$$A = \underline{104 \text{ ft}^2}$$

2.



$$A = \underline{\hspace{2cm}}$$

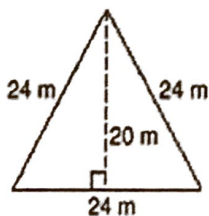
3.



$$A = \underline{11.84 \text{ cm}^2}$$

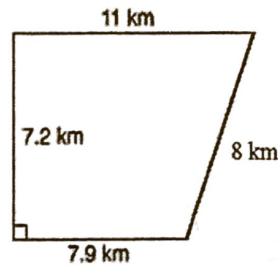
or 11.8 cm^2 (rounded)

4.



$$A = \underline{\hspace{2cm}}$$

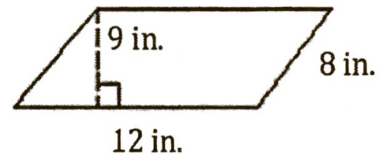
5.



$$A = \underline{68.04 \text{ km}^2}$$

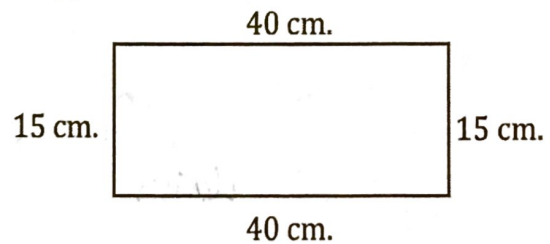
or 68.0 km^2 (rounded)

6.



$$A = \underline{\hspace{2cm}}$$

7.



$$A = \underline{600 \text{ cm}^2}$$

Instructions: Find the area of each polygon using the information provided. Round all of your answers to the tenths place. Don't forget to label your answers with the appropriate unit of measure. ***SHOW YOUR WORK FOR EACH PROBLEM!***

8. Triangle: base of 8.6 m & height of 6.5 m

11. Rectangle: width of $2\frac{1}{2}$ yds. & length of 4 yds.

$$10 \text{ yds}^2$$

9. Trapezoid: height of 4.6 m & bases of 8.2 m and 8 m

12. Square: side length of 5 mi.

$$37.26 \text{ m}^2$$
$$\approx 37.3$$

10. Parallelogram: base of 54 ft & height of 9 ft

Draw and label 2 different triangles that have an area of 120 square units.

13.

14.

Answers may vary

You have 400 square inch tiles. You want to use all of them to tile different shapes. If the area of each shape is exactly 400 square inches, find the missing measurement.

15. **Rectangle;** length: 16 in & width: 25 in.

16. **Square;** side length: _____

17. **Triangle;** base: 80 in. & height: 10 in.

18. **Trapezoid;** base 1: 28 inches, base 2: 12 inches, & height: _____