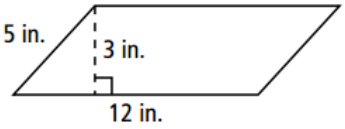
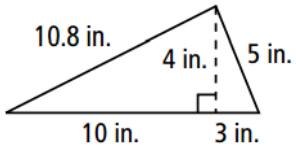
Chapter 8 Review

Name_____

Hour_____

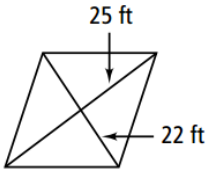
What is the area of each figure below? Round to the nearest tenth.

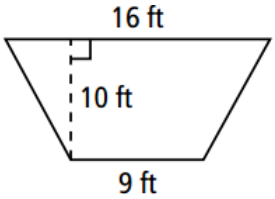
1. 

2. 

1._____

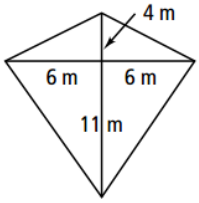
2._____

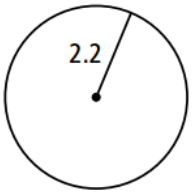
3. 

4. 

3._____

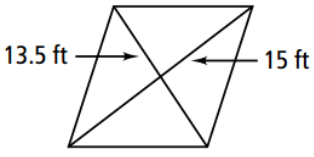
4._____

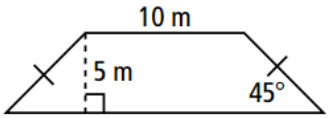
5. 

6. 

5._____

6._____

7. 

8. 

7._____

8._____

9. A trapezoid has two right angles, 16 in. and 20 in. bases, and 5 in. height. Find the area of the trapezoid. 9._____

10. Mrs. Henderson wants to put wallpaper border around her living room. The room is 18 ft. by 22 ft. How many feet of border are needed? 10._____

11. A triangle has area 16 m^2 and the height of this triangle is 8 m. What is The base of the triangle? 11._____

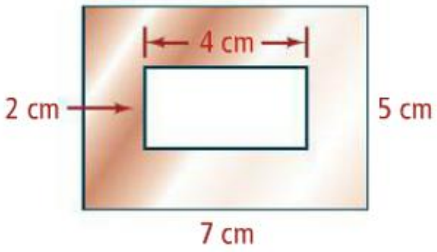
12. What is the circumference of a circle with a radius 5.4 cm, to the nearest tenth? 12._____

13. What is the perimeter of ΔPQR with vertices p(-2, 9), Q(7, -3), R(-2, -3) in The coordinate plane? 13._____

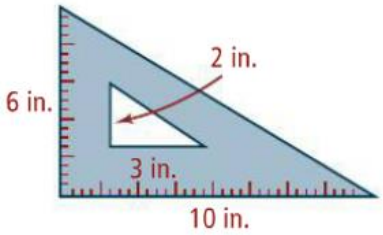
14. The endpoints of a diameter of a circle are Q (-5, -3) and R (1, 5). Find the area of the circle in terms of π. 14._____

Find the area of each shaded region to the nearest tenth.

15.



16.

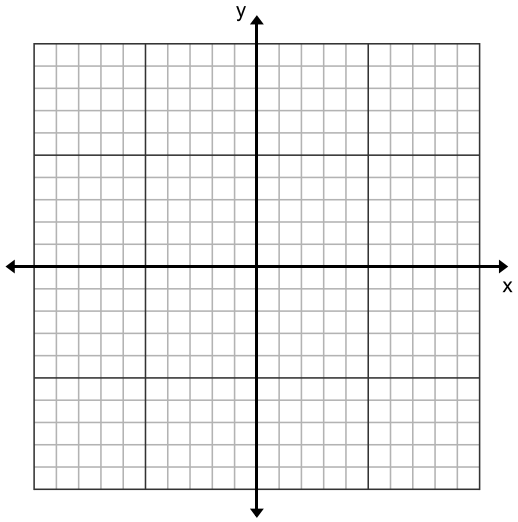


15._____

16._____

A polygon has the given vertices. Determine the most precise name for the polygon, justify your classification. Then find its area.

17. A (-4, 4), B (-1, -2), C (-4, -5), D (-7, -2)



17. Polygon Name:

_____

Justification:

_____

_____

_____

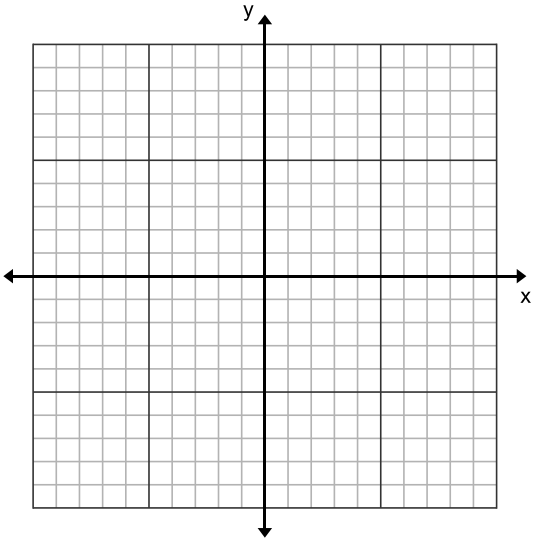
_____

_____

Area = _____

Determine whether Δ ABC is scalene, isosceles, or equilateral, Justify your classification. Then find its area.

18. A (-1, -1), B (3, 1), C (1, -3)



18. Triangle type:

_____

Justification:

_____

_____

_____

_____

_____

Area = _____

altitude	base	diagonal
kite	rhombus	trapezoid

Choose the word from the list that best matches each sentence.

19. A parallelogram with four congruent sides. 19._____

20. A segment connecting two vertices of a polygon that are not next to each other. 20._____

21. Any of the sides of a polygon. 21._____

22. A quadrilateral in which two pairs of consecutive sides are congruent and no opposite sides are congruent. 22._____

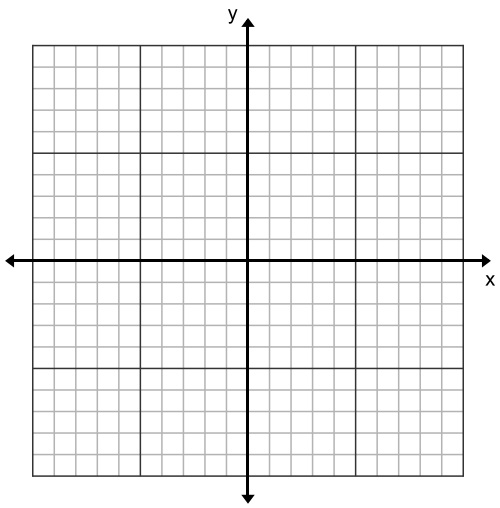
23. How could you use the formulas to determine if a polygon on a coordinate plane is a rhombus?

_____

_____

_____

Given a polygon with vertices A(-6, 3), B(-2, 0), C(-2, -5) and D(-6, -2).

24. What is the area of the polygon? 24._____

25. What is the perimeter of the polygon? 25._____