

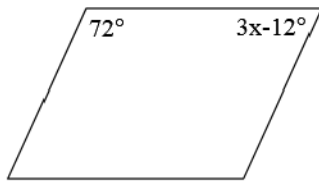
1-3. Fill in the blank.

1. A polygon with ten sides is called a(n) _____.
2. A polygon in which the angles and the sides are equal is called a(n) _____ polygon.
3. The interior angle of a polygon and the adjacent exterior angle are _____.

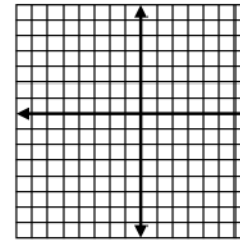
4-12. Solve each of the following.

4. Find the measure of one interior angle of a regular octagon.
5. An exterior angle of a regular polygon measures 30 degrees. Name the polygon.
6. Find the sum of the exterior angles of a 30-gon.
7. Find the sum of the interior angles of a nonagon.
8. Four interior angles of a pentagon have measures of 110° , 118° , 85° , and 120° . Find the measure of the fifth angle.
9. Find the measure of one exterior angle of a regular 15-gon.
10. Find the measure of one interior angle of a regular 20-gon.
11. If a rhombus has one side measuring 11 cm, what is the perimeter?
12. The sum of the interior angles of a polygon is 1620° . Find the number of sides.

13. Given the parallelogram, find x

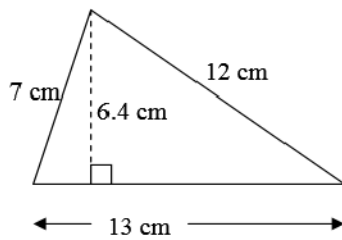


14. Find the distance between $(-4, 3)$ and $(4, -1)$. Round to the nearest tenth, if necessary.

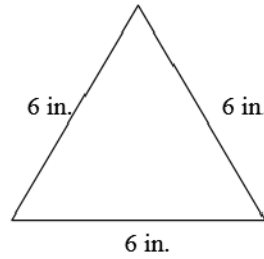


15-16. Find the area of the following triangles (not drawn to scale). Round to the nearest tenth, if necessary.

15.

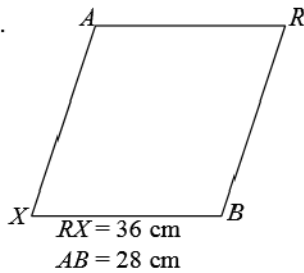


16.

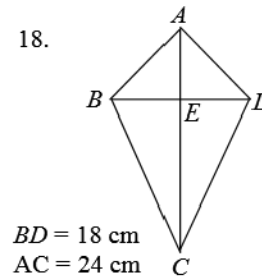


17-18. Given the following rhombus and kite, find the area of each figure.

17.



18.



19-22. Classify each statement as always, sometimes, or never true. Hint: draw a picture!

- 19. A rhombus is a square.
- 20. A square is a rhombus.
- 21. Both pairs of opposite sides of a trapezoid are parallel.
- 22. The diagonals of a rectangle are perpendicular.