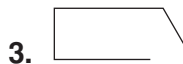


CHAPTER 9 **At-Home Practice**
Polygons

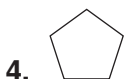
Determine whether each figure is a polygon. Explain your answer.

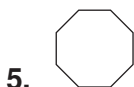


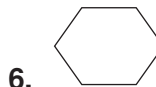




Name each polygon.



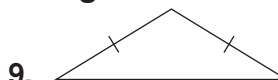




Classify each triangle according to its sides and angles.

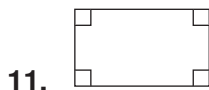


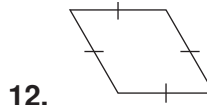




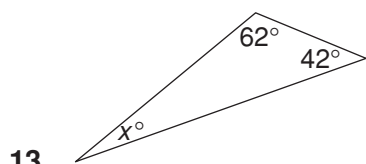
Give all of the names that apply to each quadrilateral.

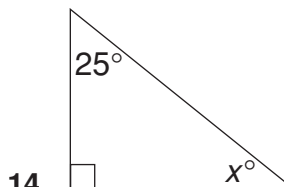






Find the unknown angle measure in each triangle.





Answers: 1. The figure is not a polygon. It is not bounded by line segments. 2. The figure is a polygon. 3. The figure is not a polygon. A polygon must be a closed figure. 4. pentagon 5. octagon 6. hexagon 7. acute equilateral 8. right scalene 9. obtuse isosceles 10. parallelogram; rectangle; square. 11. parallelogram; rectangle; rhombus. 13. 76° 14. 65°

CHAPTER

Family Fun

9

Draw It!

Directions

The goal is for your team to be the first team to correctly draw the given polygon.

- Pick someone to be the announcer and the judge.
- Form teams of two people.
- Cut out the cards. The announcer picks a card from the deck and reads the description.
- Each team has to name and draw that object.
- The first team finished shows their picture to the announcer who decides if the picture is accurate. If the picture is correct, that team earns one point. The team with the most points wins!

Be creative and make your own description cards to add to the pile.

1. A regular polygon with six sides.	2. A 3-sided figure with one right angle.	3. A quadrilateral with four right angles.	4. A 6-sided figure with different side lengths.	5. A 3-sided figure with equal angle measures.
6. A figure with four sides.	7. A figure with four congruent sides and four right angles.	8. A figure with 8 congruent sides.	9. A figure with 2 pairs of parallel sides and opposite congruent angles.	10. A 4-sided figure with only one pair of parallel sides.
11. A parallelogram with four congruent sides.	12. A rectangle with four congruent sides.	13. A parallelogram that is not a rectangle or a square but has diagonals that are perpendicular.	14. A 5-sided figure with congruent angles and sides.	15. A 3-sided figure with two congruent sides.

Answers: 1. Regular hexagon 2. Right triangle 3. Rectangle 4. Irregular hexagon 5. Equilateral triangle 6. Quadrilateral 7. Square 8. Regular Octagon 9. Parallelogram 10. Trapezoid 11. Rhombus 12. Square 13. Rhombus 14. Regular pentagon 15. Isosceles triangle