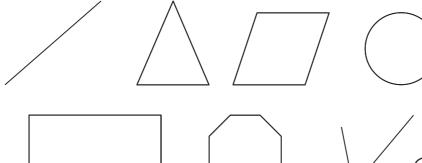


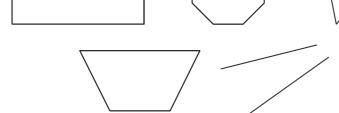
Two-Dimensional Shapes

Practice 1 Classifying Polygons

Circle the polygons.

1.



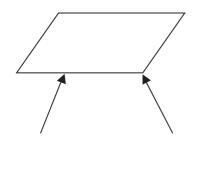


A polygon is a _____ figure formed by _____ or more line segments.

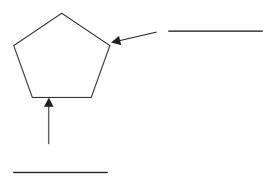


Mark the angles. Label the parts of each polygon.

2.

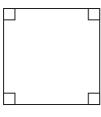


3.

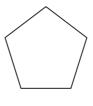


Identify each polygon.

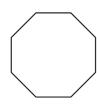
4.



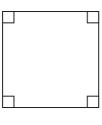
5.



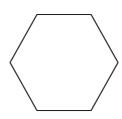
6.



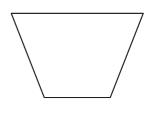
7.



8.



9.



Complete the table. Then answer the question.

10.

Polygons	Number of Sides	Number of Vertices	Number of Angles
square			
octagon			
hexagon			

Polygons	Number of Sides	Number of Vertices	Number of Angles
triangle			
rectangle			
pentagon			
parallelogram			
rhombus			
trapezoid			

11. Which figures have the same number of sides, vertices and angles?

A square, rectangle, parallelogram, rhombus and trapezoid are some special polygons. They have _____ sides, vertices and angles.

Are these statements correct? Write true or false.

- **12.** A hexagon has seven sides and six angles. _____
- **13.** All polygons have four sides. _____
- **14.** All parallelograms, squares, and trapezoids have four angles. _____



- **16.** A pentagon has six angles. _____
- 17. A triangle has two vertices.
- **18.** A parallelogram can be separated into 4 triangles. _____
- **19.** A rectangle has four right angles. _____

Cut out the tangram below and complete the table.

20.

Kind of Polygon	Number of Polygons

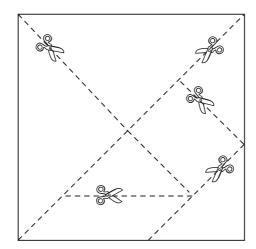
Use at least 5 polygons to make a figure. Complete the table.

21.

Kind of Polygon Used	Number of Polygons

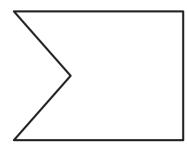
22. Name the figure that you have made.





Solve.

- 23. I am a polygon. I have 1 more angle than a rectangle has. What am I? _____
- 24. I am a polygon. I have 1 more side than a pentagon has. What am I?
- **25.** I am a polygon. I have 1 more vertex than a triangle has. What am I? _____
- **26.** Add one more polygon to the shape below to make it a hexagon.



Identify each quadrilateral. Then explain your answer.

- Example ———

This is a <u>rectangle</u>

A rectangle has 2 pairs of opposite sides that are parallel.

Only the opposite sides of a rectangle need to be of equal length.

All 4 angles of a rectangle are right angles.

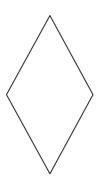
27.



This is a ______.

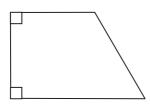


28.



This is a ______.

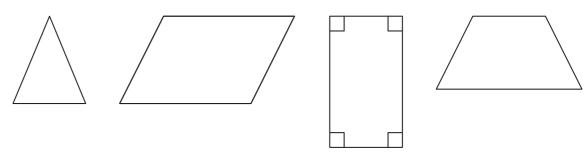
29.

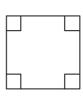


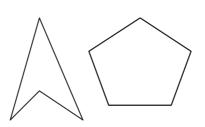
This is a ______.

Write P for a parallelogram, R for rhombus, or T for trapezoid on the shapes.

30.









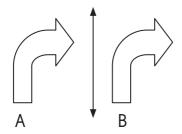
31. How is a trapezoid different from a parallelogram?

32. How is a trapezoid similar to a parallelogram?

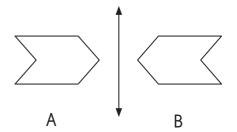
Practice 2 Congruent Figures

Does Figure A show a flip of Figure B? Write yes or no.

1.

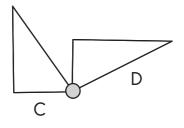


2.

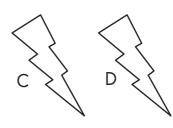


Does Figure C show a slide of Figure D? Write yes or no.

3.

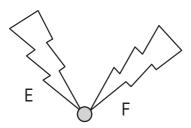


4.

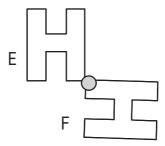


Does Figure E show a turn of Figure F? Write yes or no.

5.



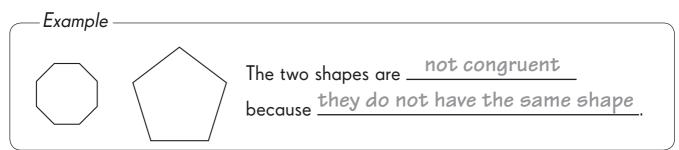
6.

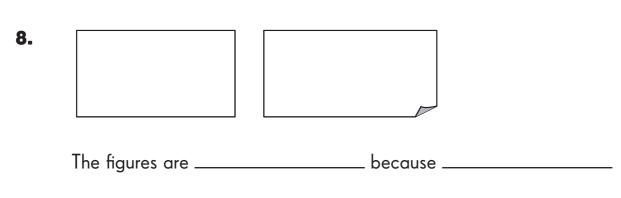




Flips, slides, and turns are movements that change the position of figures but not their shape or size.

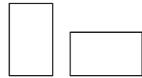
Look at the pairs of figures. Identify and explain which pair is congruent and which is not.





Circle the pairs of congruent shapes.

9.



10.



11.



Circle the congruent figures.

12.





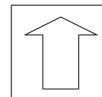






13.







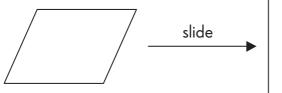




Draw congruent figures.

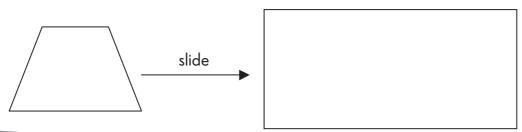
Trace the shape. Cut it out and draw a congruent figure by sliding it from left to right.

14.





15.



Circle the figure that shows a flip.

16.



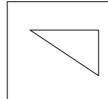




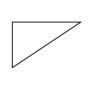


17.



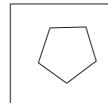




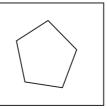


18.









Circle the figure that shows a turn.

19.









20.



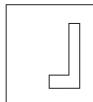






21.





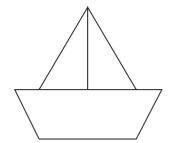


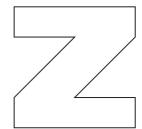


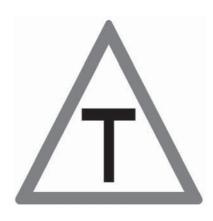
Practice 3 Symmetry

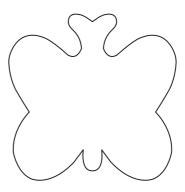
Circle the symmetric figures.

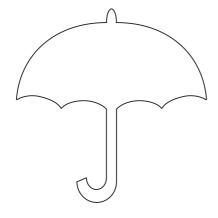
1.







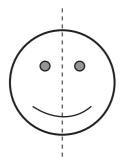


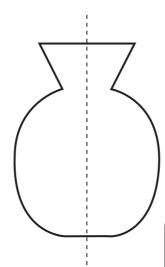


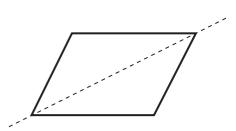


Decide which of the dotted lines are lines of symmetry.

2.







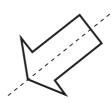
A figure has a line of symmetry when congruent halves match exactly when folded along a line.



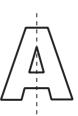
3.



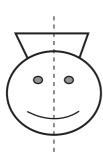
4.



5.



6.



7.



8.



© Marshall Cavendish International (Singapore) Private Limited.



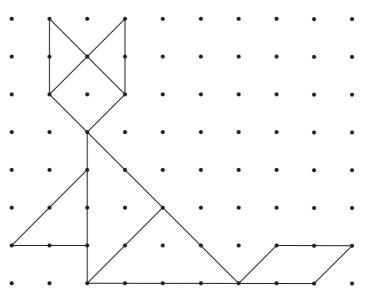


Put On Your Thinking Cap!

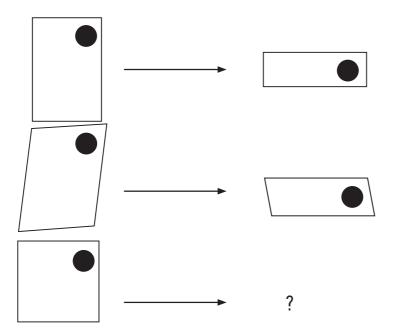


Challenging Practice

1. Copy the figure on a dot paper. Cut it out and rearrange the shapes in the figure to form a square.



2. Study the pattern to find the rule.
Then draw the missing shape.



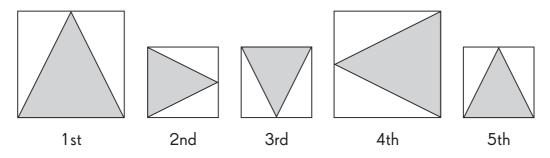




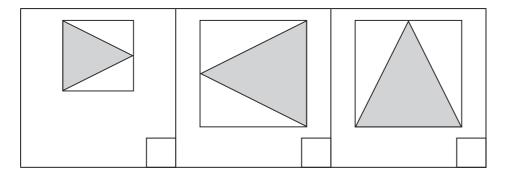
Put On Your Thinking Cap!



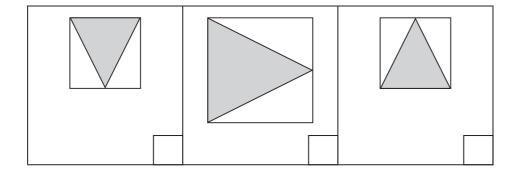
Problem Solving



- **1.** Look at the repeated pattern.
 - **a.** Check the box that shows the next shape.



b. Check the box that shows the tenth shape.



2. Describe the movement shown by the shapes.