

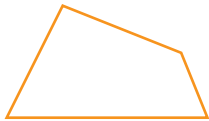


Homework 14-8

Quadrilaterals

Another Look!

You can use more than one of these names for some quadrilaterals.



Quadrilateral
A polygon with 4 sides.



Rectangle
There are four right angles.



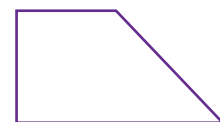
Parallelogram
Opposite sides are parallel.



Square
There are four right angles.
All sides are the same length.

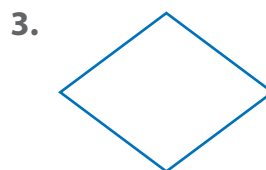
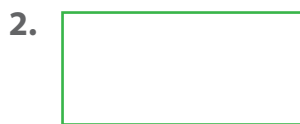
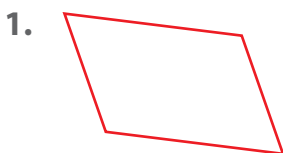


Rhombus
Opposite sides are parallel and all sides are the same length.

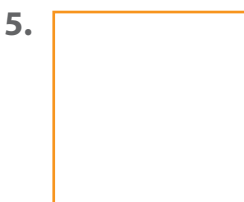


Trapezoid
There is only one pair of parallel sides.

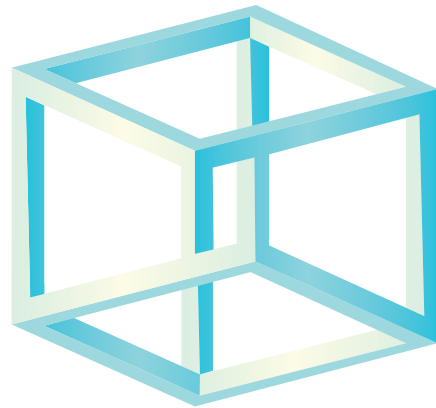
In **1** through **4**, write the most specific name for each quadrilateral.



In **5** through **7**, write all the names you can use for each quadrilateral.



8. **Represent** The figure at the right is called an Escher cube. It is named after the Dutch artist M. C. Escher. Look at the 7 white shapes created by this drawing. Tell what they are.



9. Which is **NOT** a parallelogram?

- ★ A Rhombus
B Rectangle
C Square
D Trapezoid

10. **Explain** Why can a square never be a trapezoid?

11. **Math and Science** Most plants use sunlight, water, and carbon dioxide to make their own food. This process is called photosynthesis and takes place mainly in the leaves of a plant. The leaves of a giant water lily can grow to be 8 feet across the center. How many inches is this?



12. **Justify** Rick drew a rhombus. What other names might describe the figure Rick drew based on what you know about quadrilaterals? Explain.

13. **Extend Your Thinking** Hannah has 11 toothpicks that are the same length. Name the types of triangles and quadrilaterals Hannah can make if she uses only one toothpick for each side of each figure.