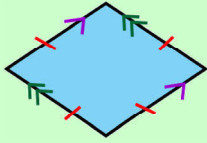


Classifying Quadrilaterals 2

Below are definitions for certain special quadrilaterals. Study them carefully.
 Note: If two sides of a shape are **congruent**, it means they have the same length.



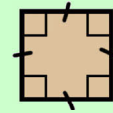
A **rhombus** (a diamond) has four congruent sides. It also has two pairs of parallel sides.

We mark each congruent side with a little tick mark. The plural of rhombus is “rhombi” or “rhombuses”.



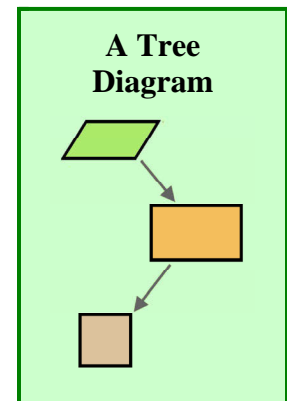
A **rectangle** has four right angles.

We mark a right angle with a small square.

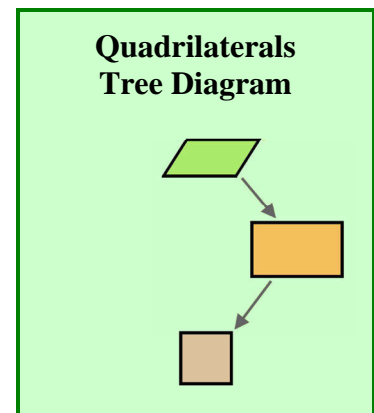


A **square** has four right angles *and* four congruent sides.

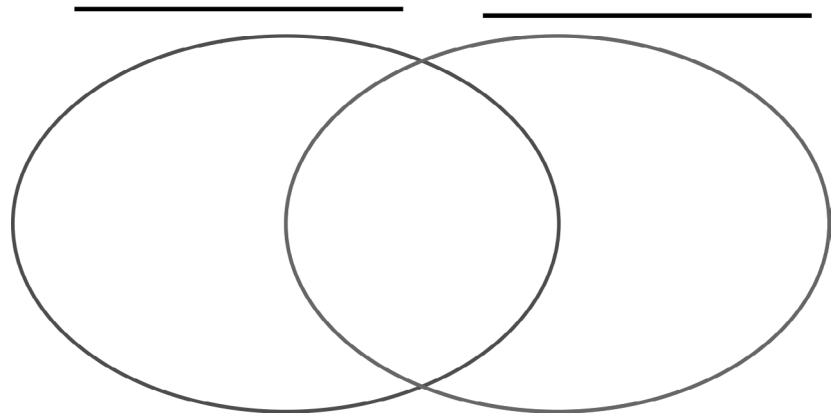
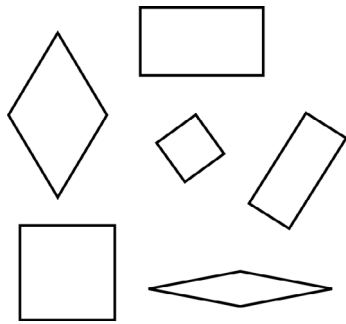
- Does a square fulfill the definition of a rhombus?
- In the tree diagram on the right, you see a rectangle, a parallelogram, and a square. Start “reading” the tree diagram from the top, beginning with the parallelogram. Fill in:
 - The _____ is like a “child” to the parallelogram: it is a parallelogram. Additionally, its angles are right angles.
 - The square is like a “child” to the _____ : it, too, has four right angles.
 Additionally, _____.



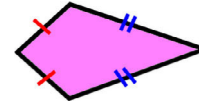
- Where in this tree diagram would a rhombus belong? Explain.



4. Below, you see six shapes. Sketch them in the Venn diagram, and label the two sets, in a manner that makes sense.



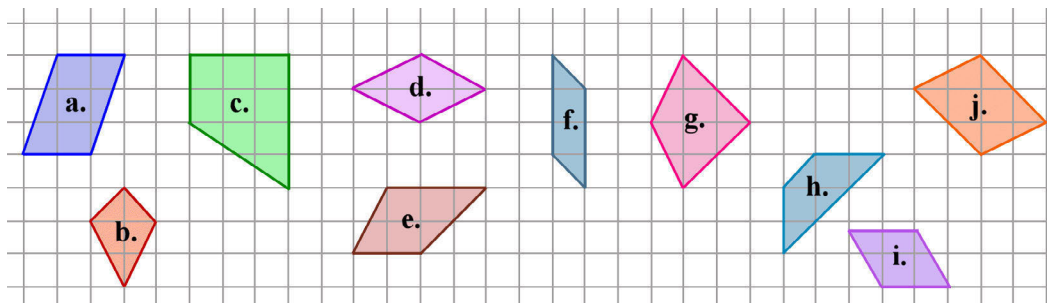
A **kite** is a quadrilateral with two pairs of congruent sides that are **adjacent** (touch each other).



5. Do these quadrilaterals also fulfill the definition of a kite?

- a. rhombus
- b. rectangle
- c. square
- d. trapezoid

6. Each quadrilateral below is either a parallelogram, a rhombus, a trapezoid, or a kite. Write their names.



- a. _____
- b. _____
- c. _____
- d. _____
- e. _____
- f. _____
- g. _____
- h. _____
- i. _____
- j. _____