

Classify Quadrilaterals

A **quadrilateral** has four sides and four angles. Quadrilaterals are grouped by their angles, by the lengths of their sides, and by any parallel sides. The table will help you compare different quadrilaterals.

Grouping	Side Lengths	Parallel Sides	Angles
General Quadrilaterals	can be 4 different lengths	0 to 2 pairs parallel sides	angles vary
Trapezoids	lengths can vary	1 pair parallel sides	angles vary
Parallelograms	opposite sides equal	2 pairs parallel sides	2 acute and 2 obtuse, or 4 right
Rectangles	opposite sides equal	2 pairs parallel sides	4 right
Rhombuses	4 sides equal	2 pairs parallel sides	2 acute, 2 obtuse, or 4 right
Squares	4 sides equal	2 pairs parallel sides	4 right

Match the drawing with as many terms as possible.



A. rhombus

B. trapezoid

C. square

D. rectangle

E. parallelogram

F. general quadrilateral

For 7–8, use the table above.

7. How are rhombuses and squares alike?

8. How are rhombuses and squares different?

Classify Quadrilaterals

A **quadrilateral** has four sides and four angles.

Quadrilaterals are grouped by their angles, by the lengths of their sides, and by any parallel sides. The table will help you compare different quadrilaterals.

Grouping	Side Lengths	Parallel Sides	Angles
General Quadrilaterals	can be 4 different lengths	0 to 2 pairs parallel sides	angles vary
Trapezoids	lengths can vary	1 pair parallel sides	angles vary
Parallelograms	opposite sides equal	2 pairs parallel sides	2 acute and 2 obtuse, or 4 right
Rectangles	opposite sides equal	2 pairs parallel sides	4 right
Rhombuses	4 sides equal	2 pairs parallel sides	2 acute, 2 obtuse, or 4 right
Squares	4 sides equal	2 pairs parallel sides	4 right

Match the drawing with as many terms as possible.

1. E, F 

2. A, E, F 

3. F 

4. A, C, D, E, F 

5. B, F 

6. D, E, F 

A. rhombus

B. trapezoid

C. square

D. rectangle

E. parallelogram

F. general quadrilateral

For 7–8, use the table above.

7. How are rhombuses and squares alike?

 They have equal sides and 2 pairs of parallel sides.

8. How are rhombuses and squares different?

 A square always has 4 right angles; a rhombus can have
 2 acute and 2 obtuse angles.