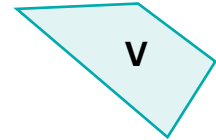
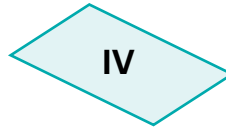
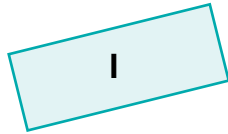


# Classifying Parallelograms

NCTM Standards 3, 6, 7, 8, 9, 10

Each figure has at least one of these names:  
*parallelogram, rectangle, rhombus, square, trapezoid.*



- 1 I have exactly one pair of parallel sides.

I am quadrilateral \_\_\_\_\_.

I am a \_\_\_\_\_.

- 2 All of my sides are equal. All of my angles are equal.

I am quadrilateral \_\_\_\_\_.

I am a \_\_\_\_\_.

- 3 I have 2 pairs of parallel sides.

I am quadrilateral \_\_\_\_\_, \_\_\_\_\_,  
\_\_\_\_\_ or \_\_\_\_\_.

I am a \_\_\_\_\_.

I am sometimes a \_\_\_\_\_,

a \_\_\_\_\_ or a \_\_\_\_\_.

- 4 All of my sides are the same length.

I am quadrilateral \_\_\_\_\_ or \_\_\_\_\_.

I am a \_\_\_\_\_.

I am sometimes a \_\_\_\_\_.

- 5 I have 2 pairs of parallel sides. I have at least one right angle.

I am quadrilateral \_\_\_\_\_ or \_\_\_\_\_.

I am a \_\_\_\_\_.

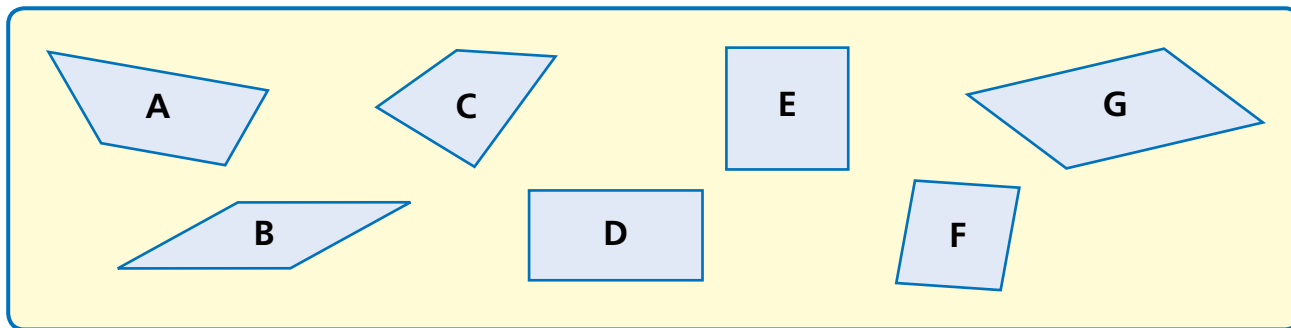
I am sometimes a \_\_\_\_\_.

- 6 I have more than 1 pair of parallel sides. My sides are not all the same length.

I am quadrilateral \_\_\_\_\_ or \_\_\_\_\_.

I am a \_\_\_\_\_.

I am sometimes a \_\_\_\_\_.



7 List all:

- |                               |                           |
|-------------------------------|---------------------------|
| <b>A</b> quadrilaterals _____ | <b>D</b> rhombuses _____  |
| <b>B</b> trapezoids _____     | <b>E</b> rectangles _____ |
| <b>C</b> parallelograms _____ | <b>F</b> squares _____    |

Write whether the statement is *true* or *false*.

- |  |               |
|--|---------------|
| 8 Some quadrilaterals are parallelograms.                      | true<br>_____ |
| 9 All squares are parallelograms.                              | _____         |
| 10 All parallelograms are squares.                             | _____         |
| 11 All squares are rectangles.                                 | _____         |
| 12 All rectangles are squares.                                 | _____         |
| 13 All parallelograms are rectangles.                          | _____         |
| 14 All quadrilaterals are either trapezoids or parallelograms. | _____         |

**Challenge**

- |                                   |       |
|-----------------------------------|-------|
| 15 Some rhombuses are rectangles. | _____ |
| 16 Some squares are trapezoids.   | _____ |
| 17 All squares are rhombuses.     | _____ |