

# Homework 32

Monday 4/28 5KS on IXL

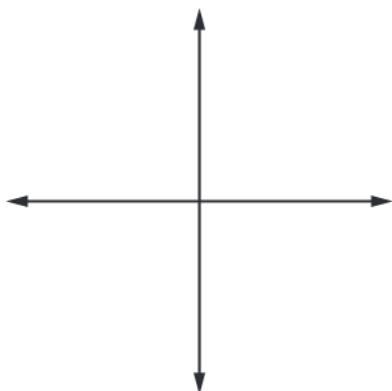
Tuesday 4/29 CNJ on IXL

Wednesday 4/30 9L6 on IXL

Thursday 5/1 STQ - MWT on IXL

QUIZ ON THURSDAY 5/1

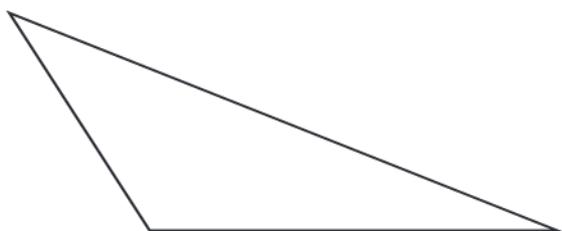
**1** How can this figure be described?



Select **all** the correct answers.

- (A) parallel lines
- (B) line segments
- (C) intersecting lines
- (D) perpendicular lines

**2** How can this shape be described?



The shape has \_\_\_\_\_ right angle(s), \_\_\_\_\_ angle(s) greater than a right angle, and \_\_\_\_\_ angle(s) less than a right angle.

**3** Ava created this figure.



**Part A**

Place an X in the table to show if each description of the figure is true or false.

	True	False
straight		
part of a line		
two end points		
continues in one direction		

**Part B**

What is this figure called?

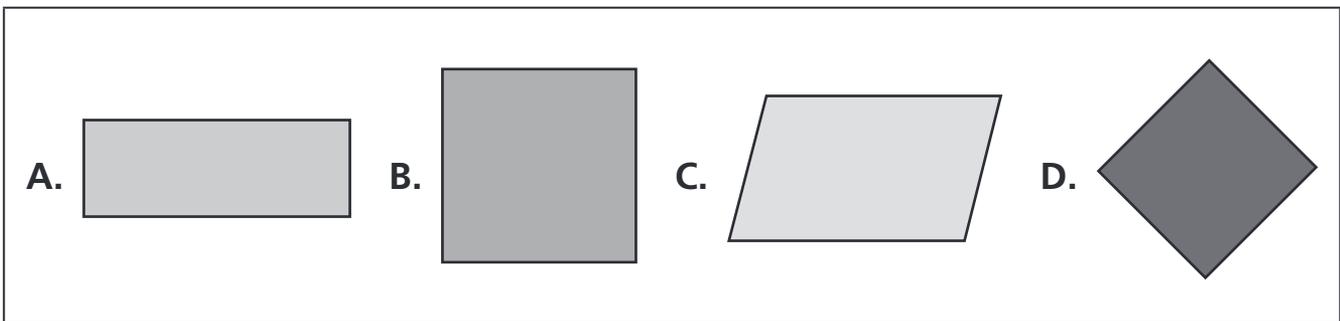
- (A) ray
- (B) line
- (C) point
- (D) line segment

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4 What can these shapes be called?

Write the letter of each shape in the correct place in the table.  
Some shapes may be used more than once or not at all.

Rectangle	Rhombus



5 Aaron says that all squares are parallelograms. Natasha says that all parallelograms are squares. Who is correct?

- (A) only Aaron
- (B) only Natasha
- (C) both Aaron and Natasha
- (D) neither Aaron nor Natasha

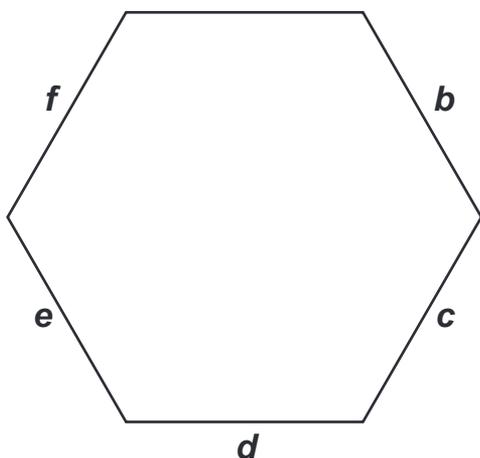
6 Which statements could be true about a trapezoid?

Select **all** the correct answers.

- (A) It has 3 sides.
- (B) It has 5 sides.
- (C) It has 0 right angles.
- (D) It has 2 right angles.
- (E) It has 1 pair of parallel sides.
- (F) It has 0 pairs of parallel sides.

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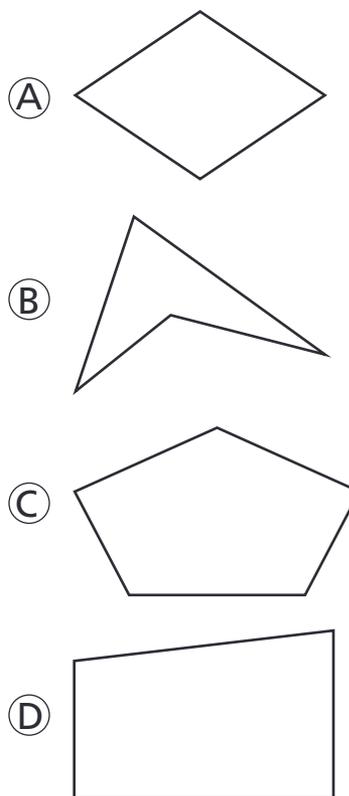
**7** Which pairs of sides appear to be parallel?



Select **all** the correct answers.

- (A) *a* and *b*
- (B) *b* and *e*
- (C) *c* and *f*
- (D) *d* and *e*
- (E) *d* and *a*

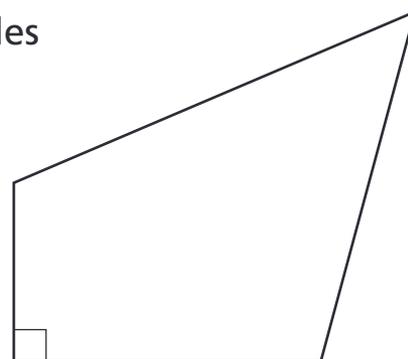
**8** Which of these shapes is not a quadrilateral?



**9** A corner is formed by the perpendicular sides in this figure.

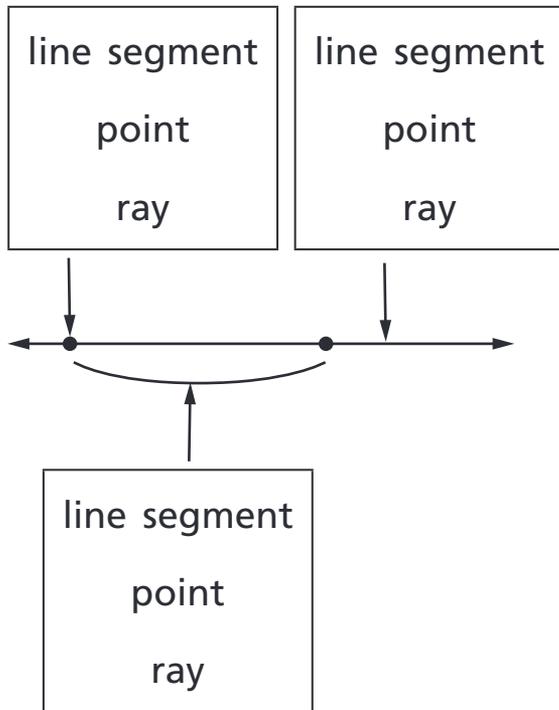
Place an X in the table to show if the words describe the corner.

	Yes	No
right angle		
parallel angle		
square angle		
perpendicular angle		



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- 10 Circle the words to correctly label the diagram.



- 11 Which statement correctly describes the number of sides of a polygon?
- (A) The number must be less than or equal to 6.
  - (B) The number must be less than or equal to 8.
  - (C) The number must be greater than or equal to 3.
  - (D) The number must be greater than or equal to 4.

- 12 How can this shape be described?



Write a term from the list to correctly complete each sentence.

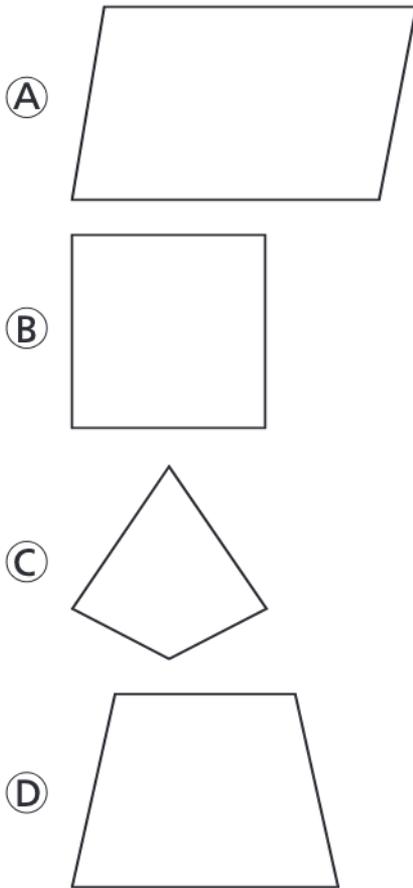
The shape is a quadrilateral because it has 4 \_\_\_\_\_.

It is a parallelogram because it has 2 sets of \_\_\_\_\_.

It is a rectangle because it has 4 \_\_\_\_\_.

sides    angles    right angles  
equal sides    parallel sides

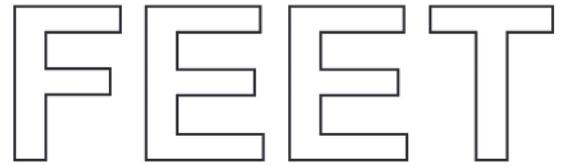
- 1** Marteen wants to draw a parallelogram that is also a rhombus. Which shape should Marteen draw?



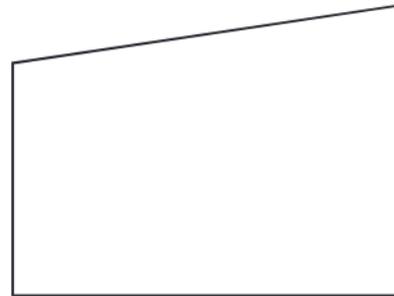
- 2** Which of these types of quadrilaterals will always have 4 lines of symmetry?

- (A) square  
(B) rhombus  
(C) rectangle  
(D) parallelogram

- 3** Circle the letter that does not have line symmetry.



- 4** Which words describe this shape?



Select all the correct answers.

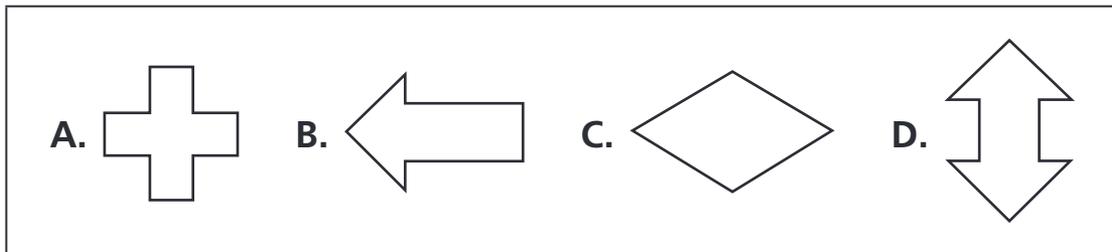
- (A) rhombus  
(B) rectangle  
(C) trapezoid  
(D) parallelogram  
(E) quadrilateral

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5 How many lines of symmetry does each shape have?

Write the letter of each shape in the correct place in the table.

1 Line of Symmetry	2 Lines of Symmetry	More Than 2 Lines of Symmetry



6 Albert and Valentina each drew a trapezoid.

- Albert says his trapezoid has 0 lines of symmetry.
- Valentina says her trapezoid has 1 line of symmetry.

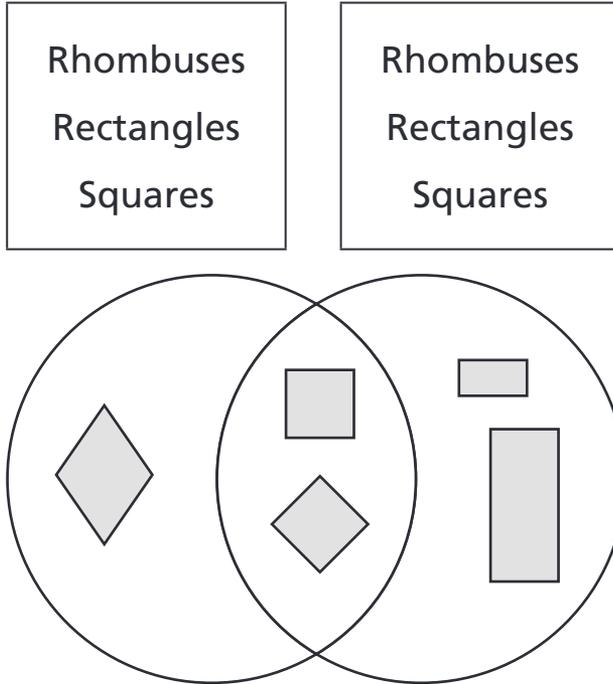
Who could be correct?

- (A) only Albert
- (B) only Valentina
- (C) both Albert and Valentina
- (D) neither Albert nor Valentina

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- 7** The Venn diagram is being used to classify quadrilaterals. What should each ring be labeled?

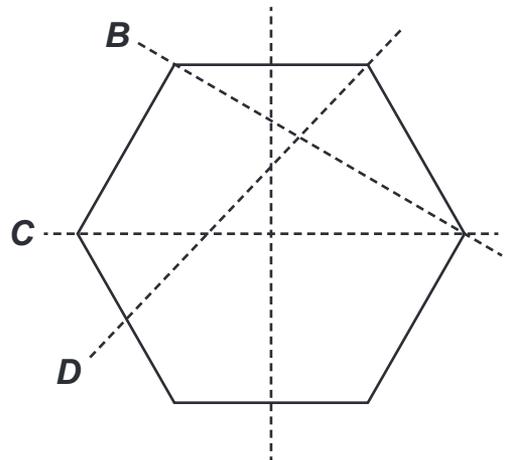
Circle the correct label above each ring.



- 8** Clark draws four lines through this shape. Which of his lines are lines of symmetry?

Select **all** the correct answers.

- (A)
- (B) **B**
- (C) **C**
- (D) **D**



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**9** How can a rectangle be described?

Place an X in the table to show if each phrase is true or false.

	True	False
is a square		
is a quadrilateral		
is a parallelogram		

**10** Which numeral is line symmetric?

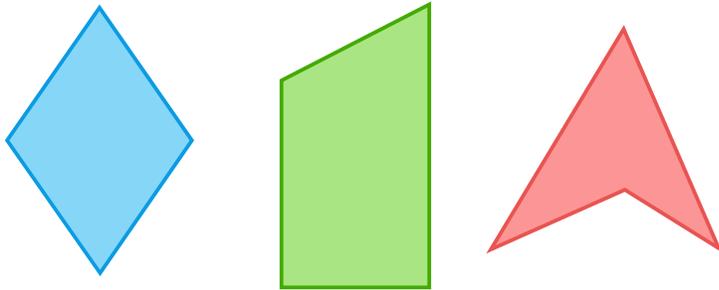
- (A) 3
- (B) 4
- (C) 6
- (D) 7

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# Types of quadrilaterals

## What is a quadrilateral?

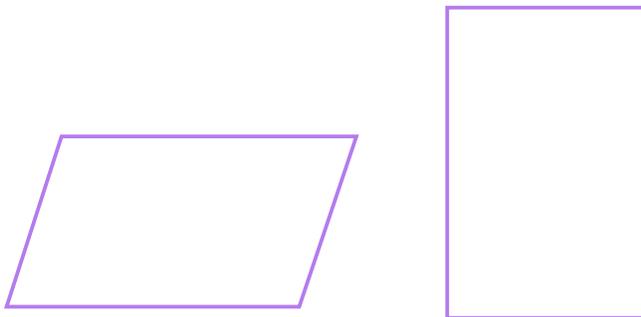
A quadrilateral is a two-dimensional shape with four sides and four angles.



Some quadrilaterals have special names, such as trapezoid, parallelogram, rectangle, rhombus, and square. You can use the properties of quadrilaterals to name them. Let's find out how!

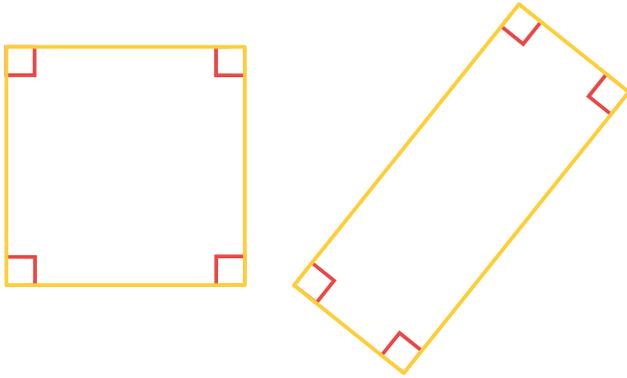
## Classifying quadrilaterals

A **parallelogram** is a quadrilateral with two pairs of parallel sides.

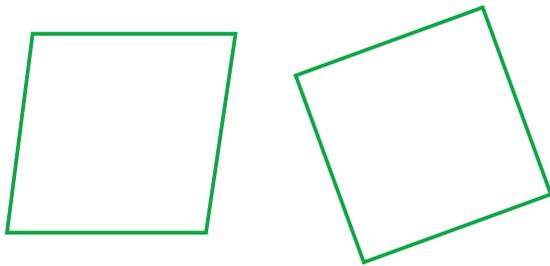


A **rectangle** is a parallelogram with four right angles.

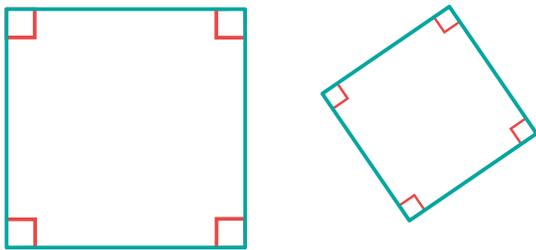
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A **rhombus** is a parallelogram with four equal sides.



A **square** is a parallelogram with four equal sides and four right angles.



A **trapezoid** is a quadrilateral with at least one pair of parallel sides.

