



Properties of Triangles and Four-sided Figures

Vocabulary

Fill in the blanks.

Use the words in the box.

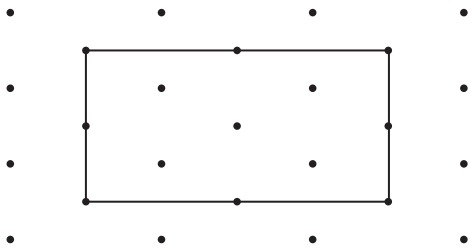
1. A _____ is a closed figure formed by joining line segments.
2. Polygons have _____ and sides.
3. _____ have 3 sides.
4. Squares, rectangles, and rhombuses are examples of _____.
5. One set of opposite sides of a _____ is parallel.
6. When expressions are not equal, they form an _____.

trapezoid
vertices
quadrilaterals
inequality
polygon
triangles

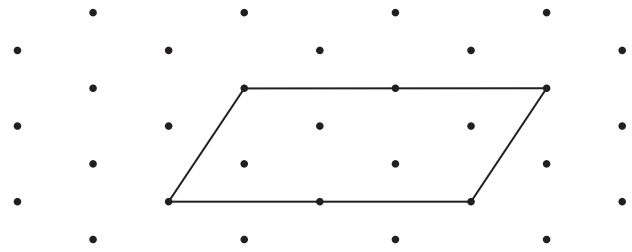
Concepts and Skills

Write the name of each polygon.

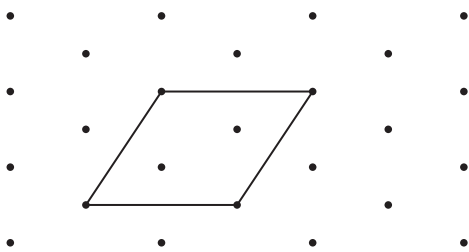
7.



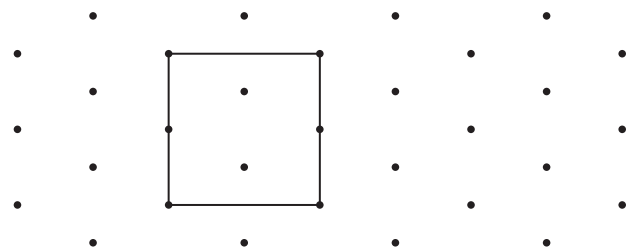
a. _____



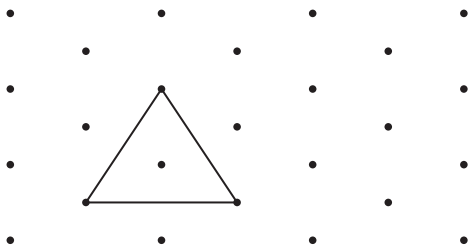
b. _____



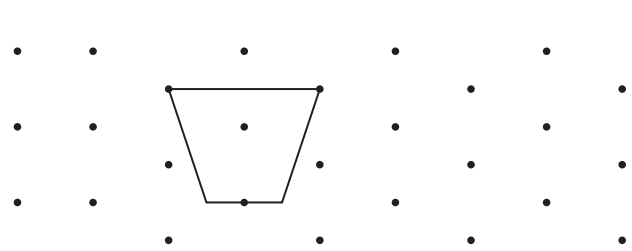
c. _____



d. _____



e. _____



f. _____

Complete.

8. A triangle has _____ sides.

9. All four sides of a square are of _____ length.

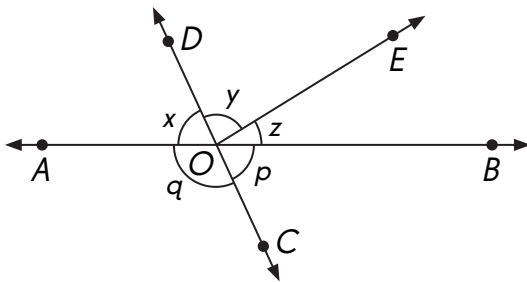
Name: _____

Date: _____

10. The opposite sides of a square, a rectangle, a parallelogram, and a rhombus are _____.
11. The _____ sides of a rectangle are of equal length.
12. Only _____ pair of opposite sides of a trapezoid is parallel.
13. “>” means _____ and “<” means _____.

Complete.

14. \vec{AB} and \vec{CD} meet at O .



- a. $m\angle$ _____ + $m\angle$ _____ = 180°
- b. $m\angle x$ + $m\angle$ _____ + $m\angle$ _____ = 180°
- c. $m\angle p$ + $m\angle$ _____ + $m\angle$ _____ = 180°

Complete with <, >, or =.

15. If $p = 10$, then $p - 3$ 8.
16. If $m = 3$, then $25 + m$ 28.
17. If $y = 7$, then $y + 3$ 5.

Problem Solving

Solve.

18.

I have 4 equal sides.
But none of my angles form
a right angle.
What shape am I?

19.

I have 4 sides.
Only 1 pair of my opposite
sides is parallel.
What shape am I?
