

April 2, 2015

1st Grade Starter

Mr. Smith needs snacks for all the students going on a field trip. He bought 9 boxes of granola bars containing a total of 88 bars. He wanted variety, so he purchased 3 different flavors, which happened to come from 3 different companies. The almond chunky granola bars were packaged 8 to a box, the chewy chocolate chip bars came 10 to a box, and the super special raisin nut package contained 12 per box. He bought the most boxes of almond chunky, but had the most raisin nut bars.

How many boxes of each flavor did he buy?



4/2 Quadrilaterals 4 sides

Definition: polygon w/ 4 sides

Work with your partner and name as many **QUADRILATERALS** as you can.

Parallelogram

Rectangle

Square

Kite

Rhombus

Trapezoid

Quadrilaterals

Parallelogram

Rectangle

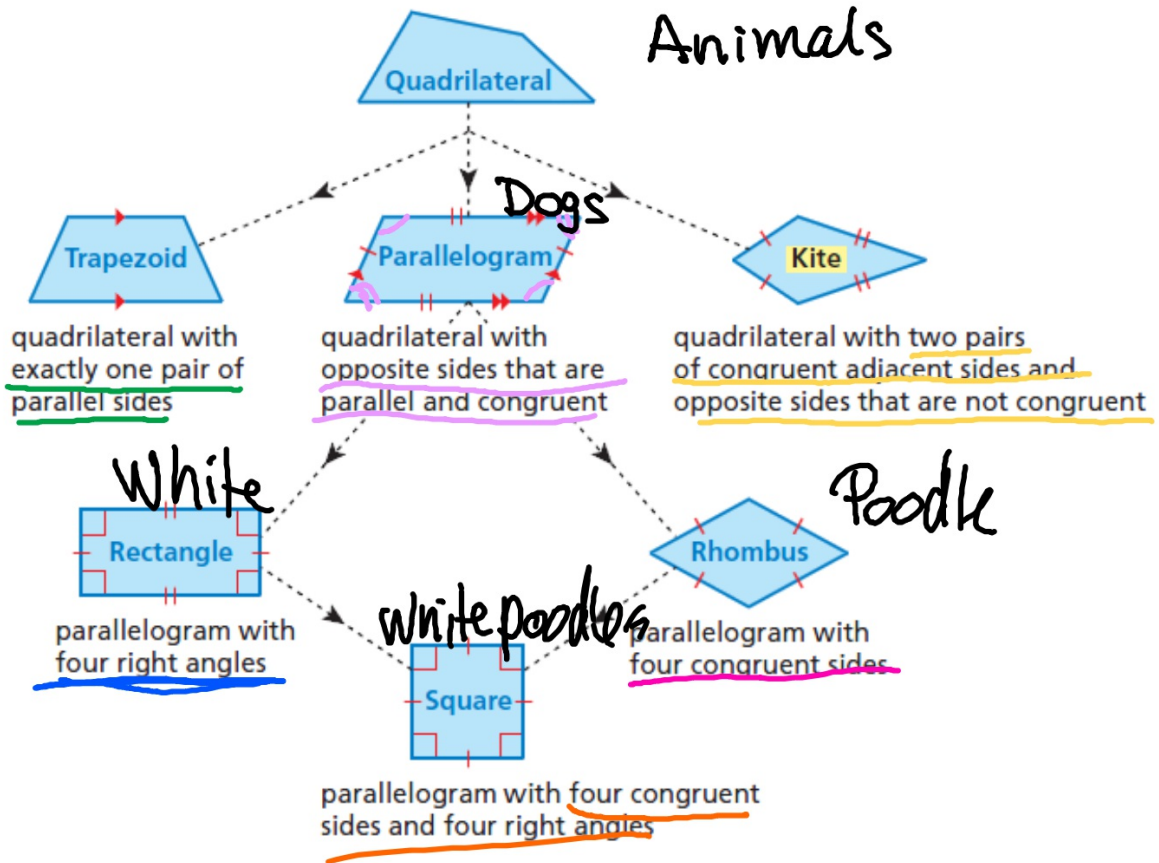
Square

Rhombus

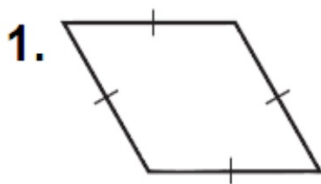
Trapezoid

Kite

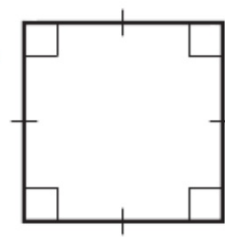
A quadrilateral is a polygon with four sides. The diagram shows properties of different types of quadrilaterals and how they are related. When identifying a quadrilateral, use the name that is most specific.



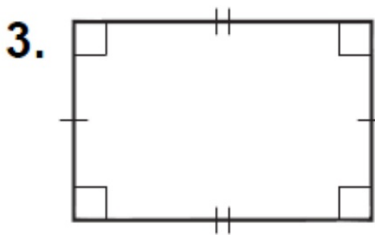
Classify the quadrilateral.



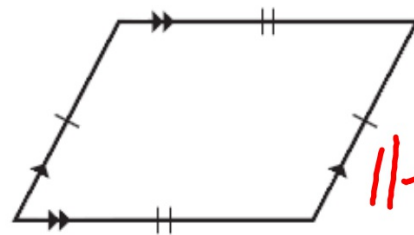
parallelogram
rhombus



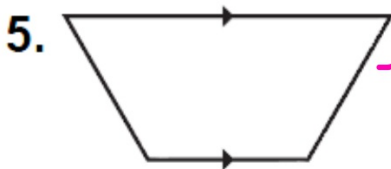
square
rhombus
rectangle
parallelogram



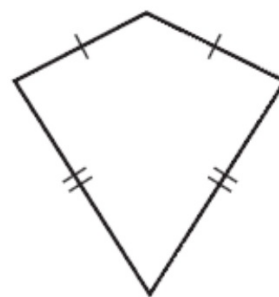
rectangle
parallelogram



rhombus



trapezoid



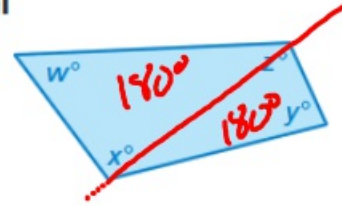
kite

Key Idea

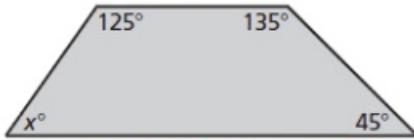
Sum of the Angle Measures of a Quadrilateral

Words The sum of the angle measures of a quadrilateral is 360° .

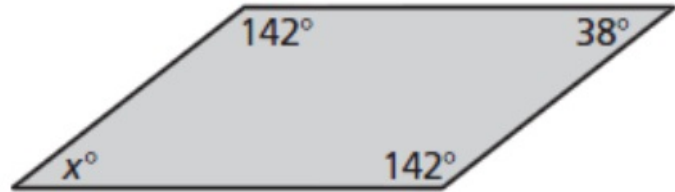
Algebra $w + x + y + z = 360$



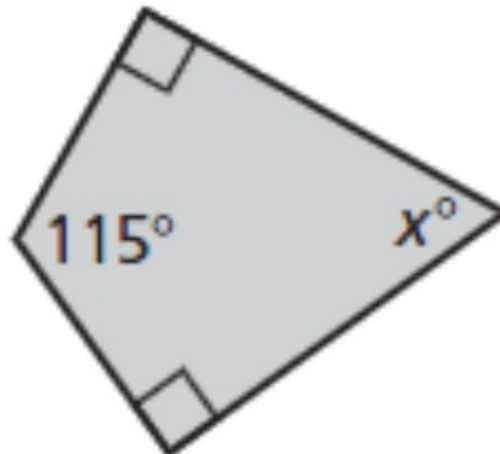
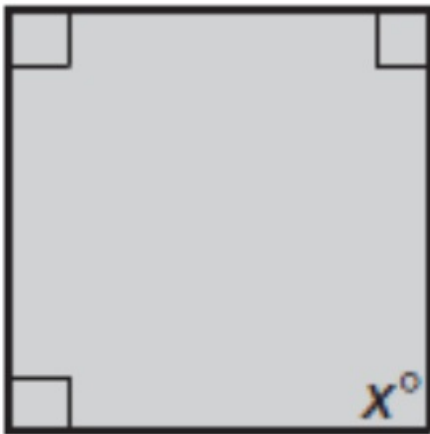
Find the value of x



$$\begin{aligned}x + 125 + 135 + 45 &= 360 \\x + 305 &= 360 \\- 305 &\quad - 305 \\x &= 55\end{aligned}$$



$$\begin{aligned}x + 2(142) + 38 &= 360 \\x + 322 &= 360 \\- 322 &\quad - 322 \\x &= 38\end{aligned}$$



Fill in the blank with *always*, *sometimes*, or *never*.
Explain by drawing diagrams.

A rectangle is ? a square.

A rhombus is ? a parallelogram.

A trapezoid is ? a kite.

A parallelogram is ? a rhombus.

Draw the following trapezoids. If it is not possible, explain why.

- a.** a trapezoid with one right angle
- b.** a trapezoid with two right angles
- c.** a trapezoid with three right angles
- d.** a trapezoid with four right angles

Homework

Due