

Quadrilaterals Practice

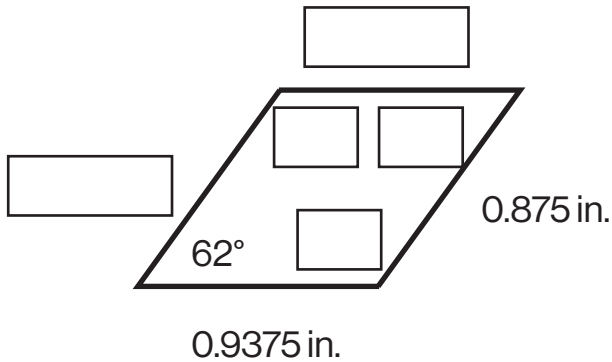
Name: _____

Date: _____

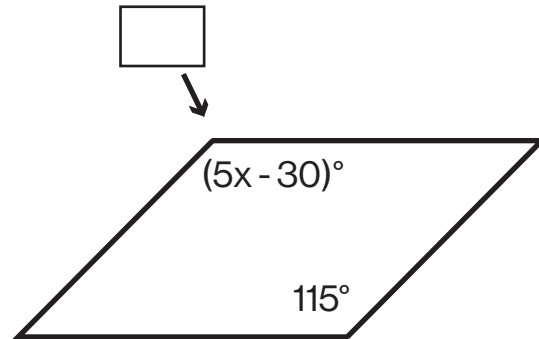
Question 1

Determine the unknown angle and side measurements

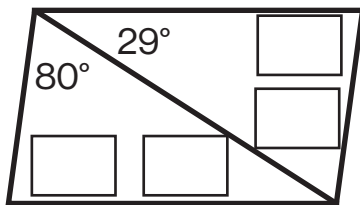
I. quadrilateral : parallelogram



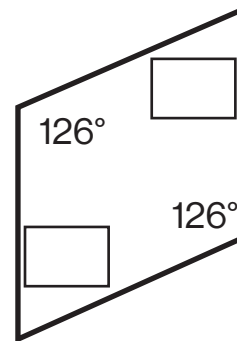
II. quadrilateral : parallelogram



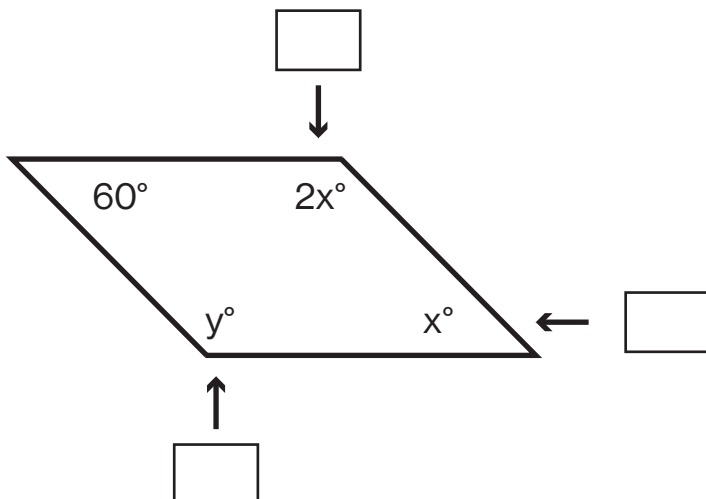
III. quadrilateral : parallelogram



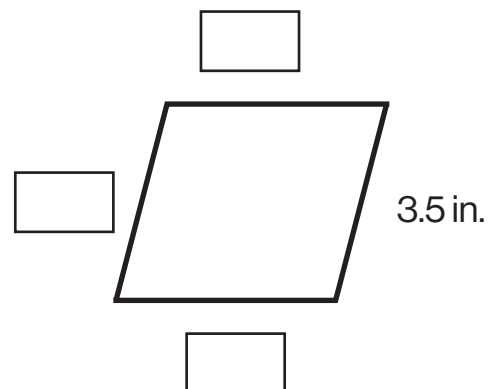
IV. quadrilateral : parallelogram



V. quadrilateral : parallelogram

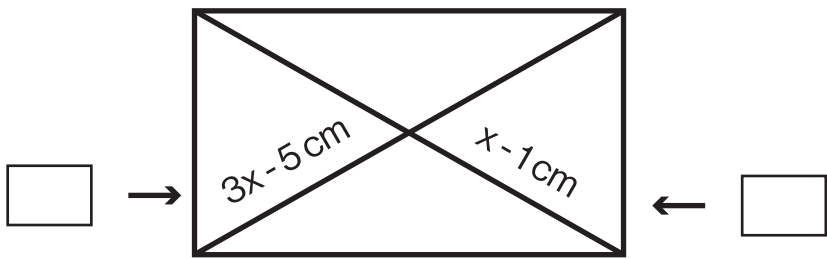


VI. quadrilateral : rhombus

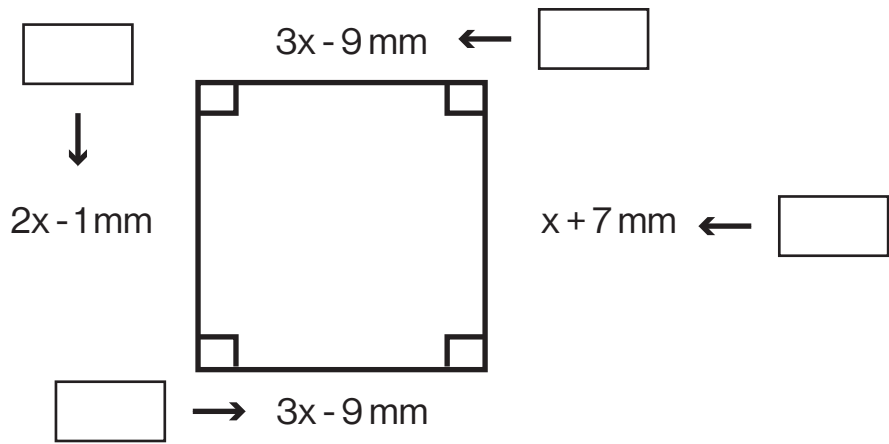


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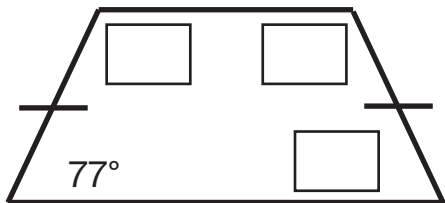
VII. quadrilateral : rectangle



VIII. quadrilateral : square

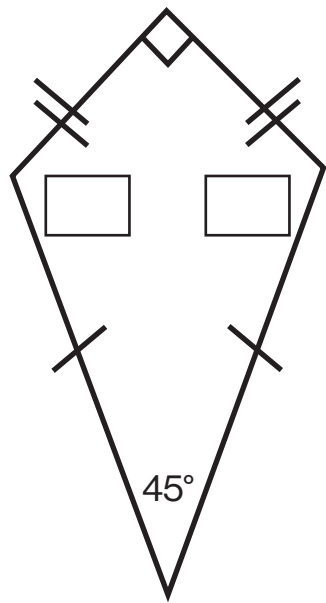


IX. quadrilateral : isosceles trapezoid



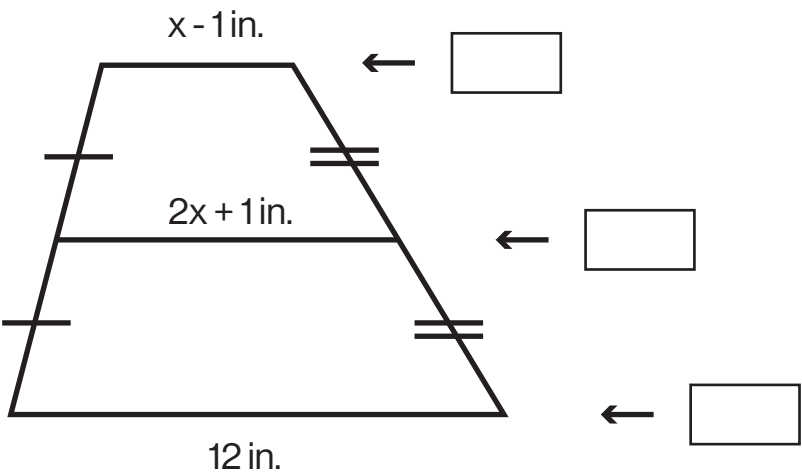
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X. quadrilateral : kite



Question 2

Determine the length of the midsegment of the trapezoid



Quadrilaterals Practice

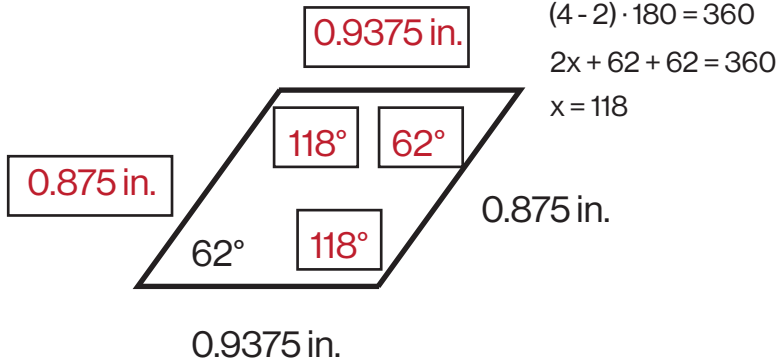
Name: Key

Date: _____

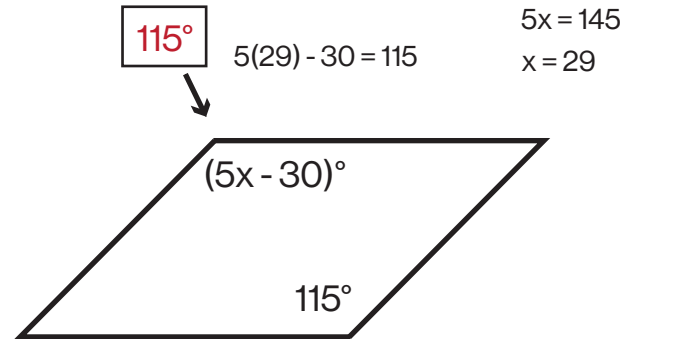
Question 1

Determine the unknown angle and side measurements

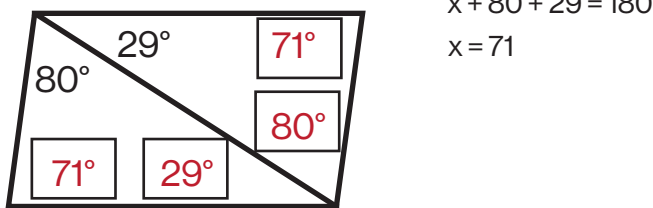
I. quadrilateral : parallelogram



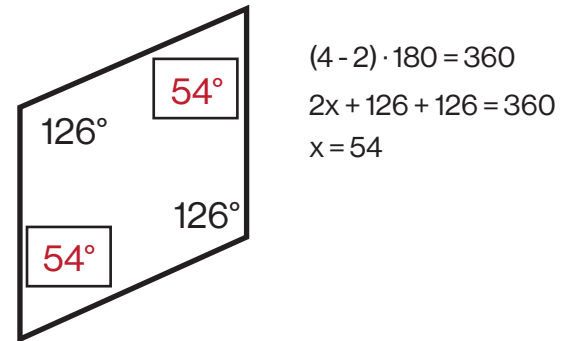
II. quadrilateral : parallelogram



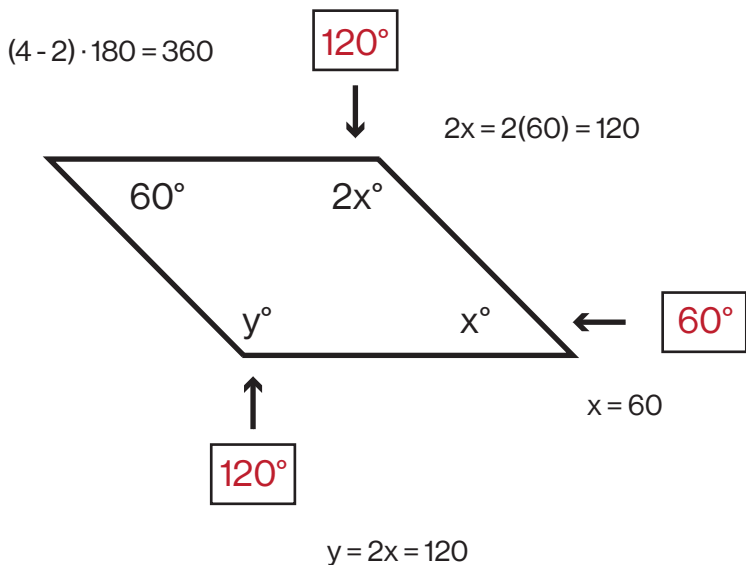
III. quadrilateral : parallelogram



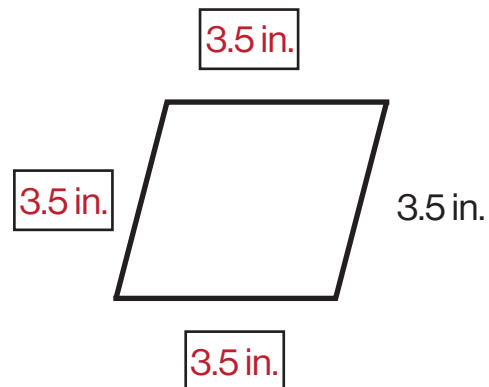
IV. quadrilateral : parallelogram



V. quadrilateral : parallelogram

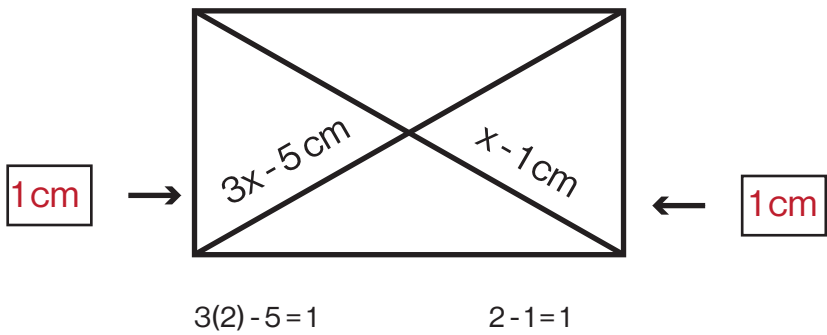


VI. quadrilateral : rhombus



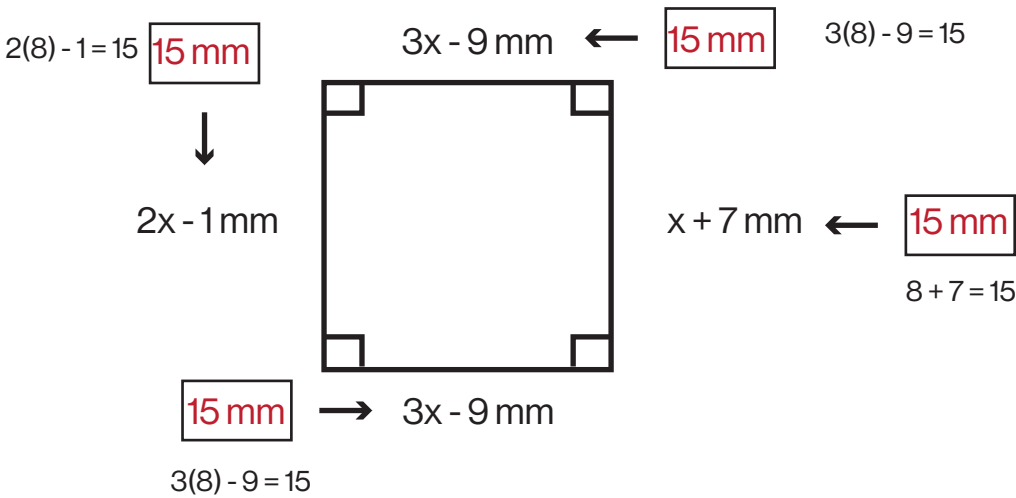
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VII. quadrilateral : rectangle



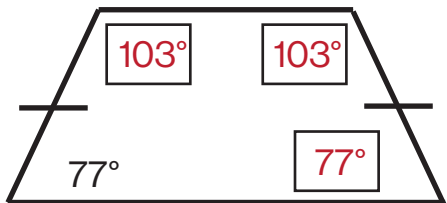
$$\begin{aligned} 3x-5 &= x-1 \\ 2x-5 &= -1 \\ 2x &= 4 \\ x &= 2 \end{aligned}$$

VIII. quadrilateral : square



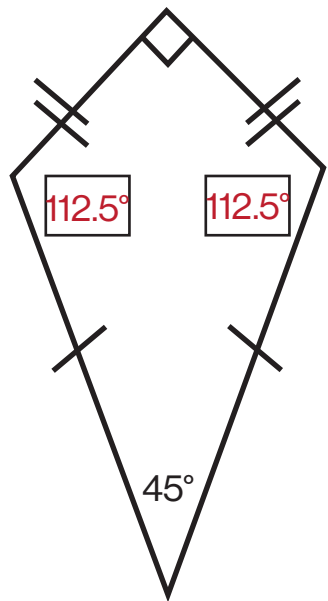
$$\begin{aligned} 3x-9 &= 2x-1 \\ x-9 &= -1 \\ x &= 8 \end{aligned}$$

IX. quadrilateral : isosceles trapezoid



$$\begin{aligned} (4-2) \cdot 180 &= 360 \\ 2x+77+77 &= 360 \\ x &= 103 \end{aligned}$$

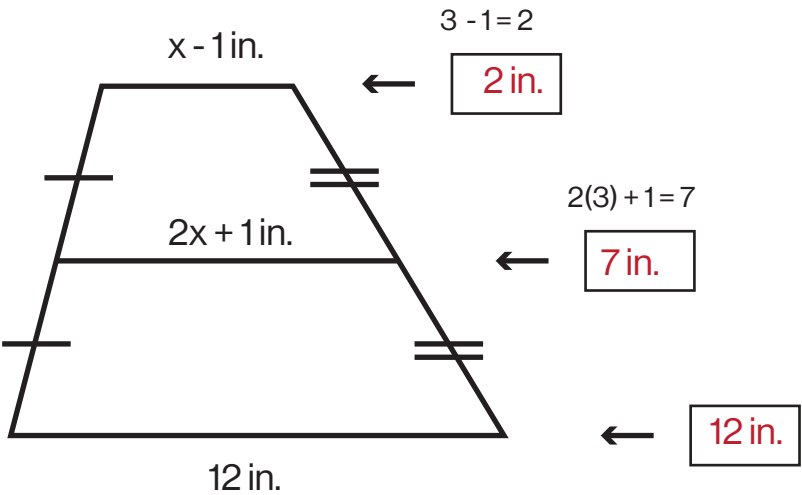
X. quadrilateral : kite



$$\begin{aligned} (4 - 2) \cdot 180 &= 360 \\ 2x + 90 + 45 &= 360 \\ x &= 112.5 \end{aligned}$$

Determine the length of the midsegment of the trapezoid

$$\begin{aligned} 2x + 1 &= \frac{1}{2} ((x - 1) + (12)) \\ 2x + 1 &= \frac{1}{2} (x - 1 + 12) \\ 2x + 1 &= \frac{1}{2} (x + 11) \\ 2x + 1 &= \frac{x}{2} + \frac{11}{2} \\ \frac{3x}{2} + 1 &= \frac{11}{2} \\ \frac{3x}{2} &= \frac{9}{2} \\ 3x &= 9 \\ x &= 3 \end{aligned}$$



$$7 = \frac{1}{2} (2 + 12)$$