math Antics Exercises

Name: _____

Date: _____

Quadrilaterals

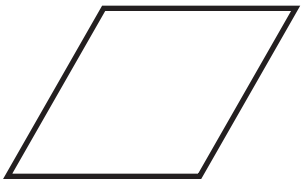
1 What do we call a quadrilateral that has **two** pairs of parallel sides?

a parallelogram

2 What do we call a quadrilateral that has only **one** pair of parallel sides?

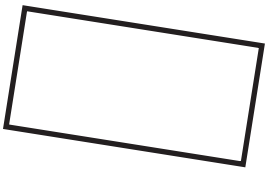
a trapezoid (or trapezium)

3 This parallelogram has 4 equal sides, but not 4 equal angles. What is its name?



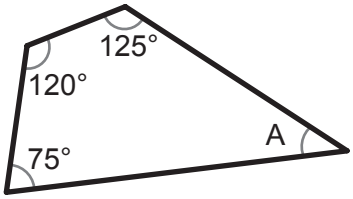
rhombus

4 This parallelogram has 4 equal angles, but not 4 equal sides. What is its name?



rectangle

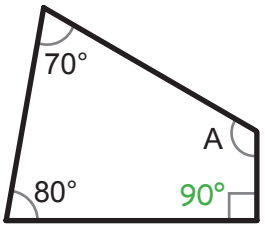
5 Find the unknown angle A.



$$\begin{array}{r} {\scriptstyle 1\ 1} \\ 120 \\ 125 \\ +\ 75 \\ \hline 320 \end{array} \qquad \begin{array}{r} 360 \\ -\ 320 \\ \hline 40 \end{array}$$

$m\angle A = 40°$

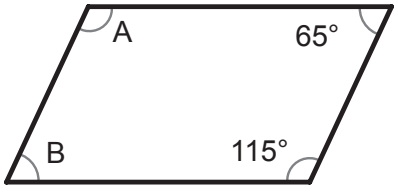
6 Find the unknown angle A.



$$\begin{array}{r} 90 \\ 80 \\ +\ 70 \\ \hline 240 \end{array} \qquad \begin{array}{r} 360 \\ -\ 240 \\ \hline 120 \end{array}$$

$m\angle A = 120°$

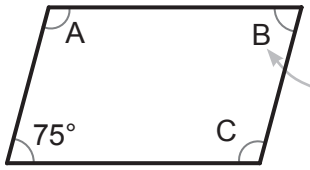
7 Find the unknown angles A and B, in this parallelogram.



The opposite angles in a parallelogram are equal.

$m\angle A = 115°$ $m\angle B = 65°$

8 Find angle A in this parallelogram.



$m\angle B = 75°$

$$\begin{array}{r} {\scriptstyle 1} \\ 75 \\ +\ 75 \\ \hline 150 \end{array} \qquad \begin{array}{r} 360 \\ -\ 150 \\ \hline 210 \end{array} \qquad 210 \div 2 = 105$$

$m\angle A = 105°$

See Video for step-by-step solutions to each problem.