

Quadrilaterals

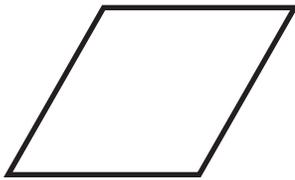
1 What do we call a quadrilateral that has **two** pairs of parallel sides?

a parallelogram

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

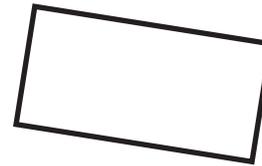
a trapezoid
(or trapezium)

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



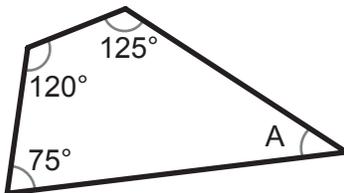
rhombus

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



rectangle

5 Find the unknown angle A.

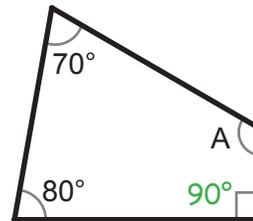


$$\begin{array}{r} 11 \\ 120 \\ 125 \\ + 75 \\ \hline 320 \end{array}$$

$$\begin{array}{r} 360 \\ - 320 \\ \hline 40 \end{array}$$

$m\angle A = 40^\circ$

6 Find the unknown angle A.

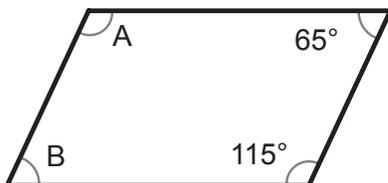


$$\begin{array}{r} 90 \\ 80 \\ + 70 \\ \hline 240 \end{array}$$

$$\begin{array}{r} 360 \\ - 240 \\ \hline 120 \end{array}$$

$m\angle A = 120^\circ$

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

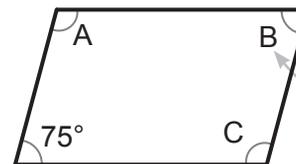


The opposite angles in a parallelogram are equal.

$m\angle A = 115^\circ$

$m\angle B = 65^\circ$

8 Find angle A in this parallelogram.



$m\angle B = 75^\circ$

$$\begin{array}{r} 1 \\ 75 \\ + 75 \\ \hline 150 \end{array}$$

$$\begin{array}{r} 360 \\ - 150 \\ \hline 210 \end{array}$$

$210 \div 2 = 105$

$m\angle A = 105^\circ$