

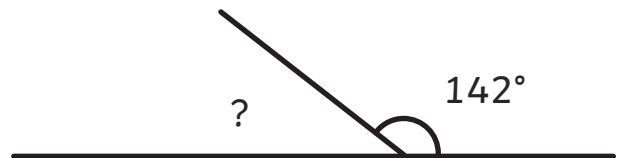
Finding Missing Angles

Angles on a straight line always add up to 180°



$$180^\circ - 117^\circ = 63^\circ$$

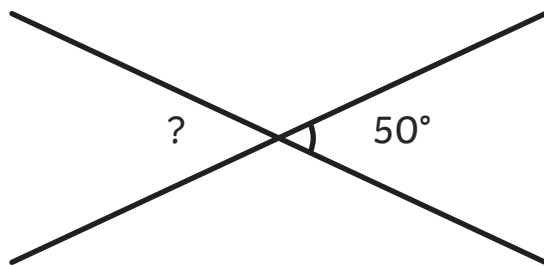
The missing angle is 63° .



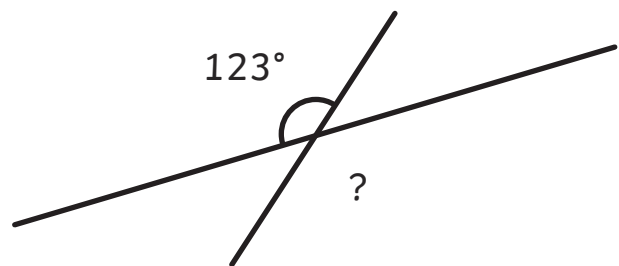
$$180^\circ - 142^\circ = 38^\circ$$

The missing angle is 38° .

Missing Vertically Opposite Angles
Opposite angles are equal.

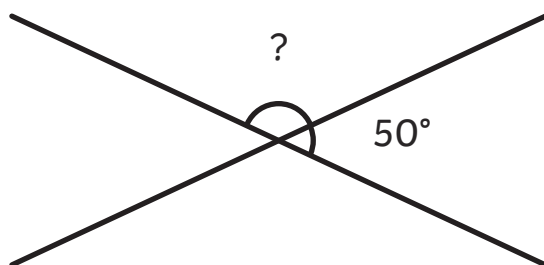


The missing angle is 50° .



The missing angle is 123° .

Angles around a point total 360°

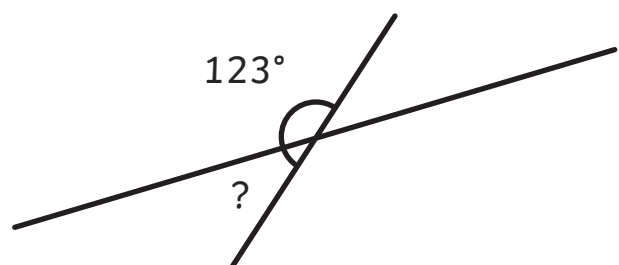


The two known opposite angles total 100° .

$$360^\circ - 100^\circ = 260^\circ$$

$$260^\circ \div 2 = 130^\circ$$

The missing angle is 130° .



The two known opposite angles total 246° .

$$360^\circ - 246^\circ = 114^\circ$$

$$114^\circ \div 2 = 57^\circ$$

The missing angle is 57° .