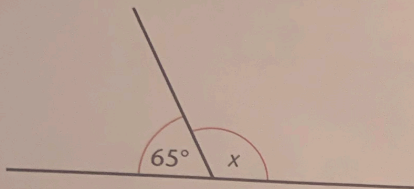


**TARGET** To find the missing angles at a point and on a straight line.

*Examples*

**ANGLES ON A STRAIGHT LINE**

The sum of the angles at a point on a straight line is  $180^\circ$ .



$$\begin{aligned} x &= 180^\circ - 65^\circ \\ &= 115^\circ \end{aligned}$$

**ANGLES AT A POINT**

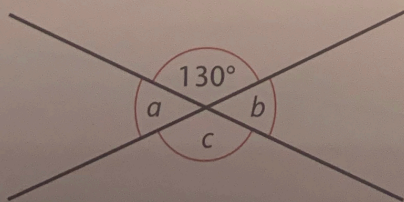
A whole turn is  $360^\circ$ .



$$\begin{aligned} y &= 360^\circ - 130^\circ \\ &= 230^\circ \end{aligned}$$

**OPPOSITE ANGLES**

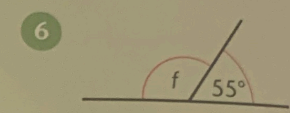
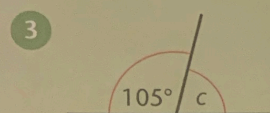
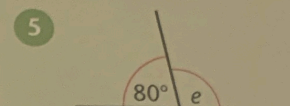
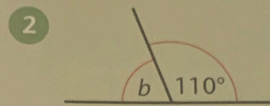
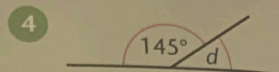
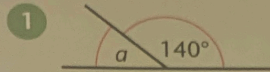
When two straight lines intersect at a point opposite angles are equal.



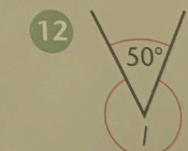
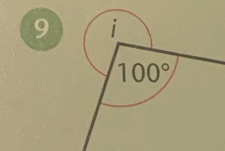
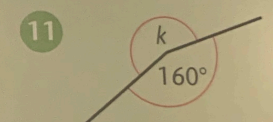
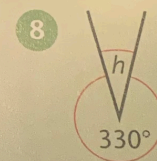
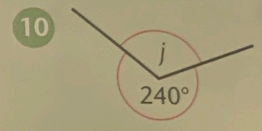
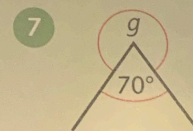
$$\begin{aligned} a &= 180^\circ - 130^\circ \\ &= 50^\circ \\ b &= 180^\circ - 130^\circ \\ &= 50^\circ \\ c &= 360^\circ - 130^\circ - 50^\circ - 50^\circ \\ &= 360^\circ - 230^\circ \\ &= 130^\circ \end{aligned}$$

**A**

Find the missing angles.



Find the missing angles.



Find the missing angles.

