Angles topic test

Name: _____ Date: _____

12 questions | 22 marks | 30 minutes

Missing-angle problems with clear diagrams and reasons.

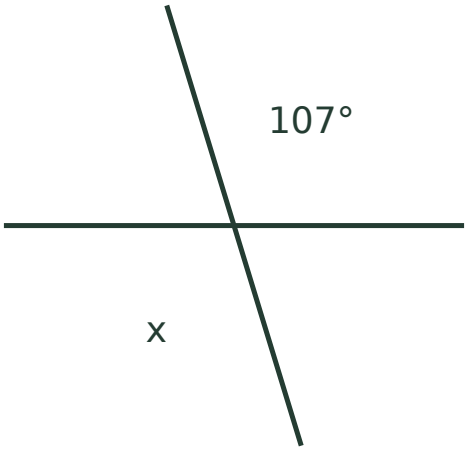
No calculator needed.

1. How many degrees are in a straight angle? [1 mark]

2. How many degrees are in a full turn around a point? [1 mark]

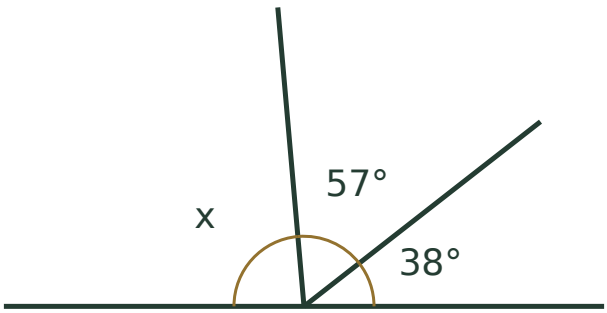
3. Two adjacent angles form a straight line. One is 118°. Find the other. [1 mark]

4. Two lines cross. One angle is 107°. Find its vertically opposite angle. [1 mark]



Two intersecting straight lines

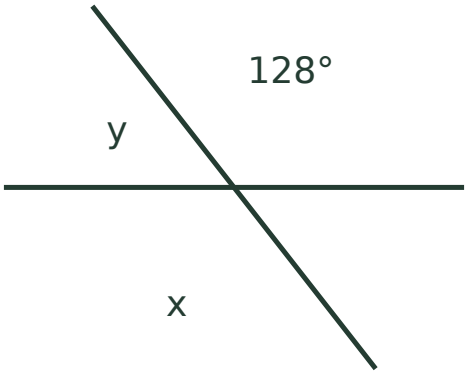
5. A straight angle has parts 38°, 57° and x. Find x. [2 marks]



Adjacent angles on a straight line

6. Angles around a point are 110°, 95° and x. Find x. [2 marks]

7. Two straight lines cross. One angle is 128°. Find its opposite angle and one adjacent angle. Give a reason for each. [3 marks]



Two intersecting straight lines

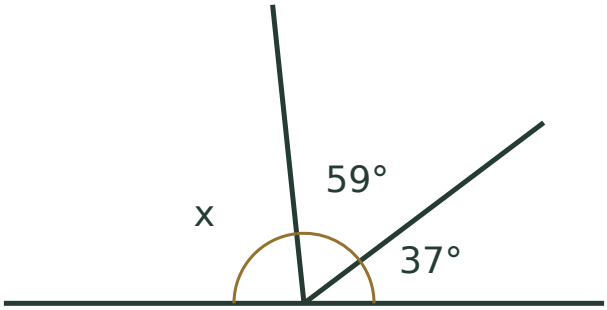
8. A right angle is split into 34° and x. Find x. [1 mark]

9. A full turn is split into one 96° angle and two equal angles. Find each equal angle. [2 marks]

10. Four angles around a point are 64°, 88°, 103° and x. Find x and check. [3 marks]

11. Ella says that a 109° angle has an 81° neighbour on a straight line. Explain the error and find the correct neighbour. [2 marks]

12. The diagram shows three parts of a straight angle: 37°, 59° and x. Find x. Write a reason and a check. [3 marks]



Adjacent angles on a straight line