1   *ADB* and *CD* are straight lines.
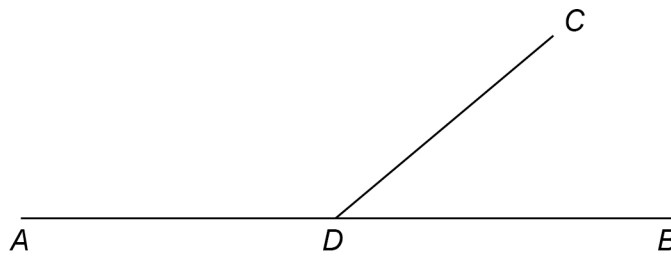
C

Not drawn
accurately

A   D   B

angle *ADC* = 5 × angle *CDB*

Work out the size of angle *ADC.*
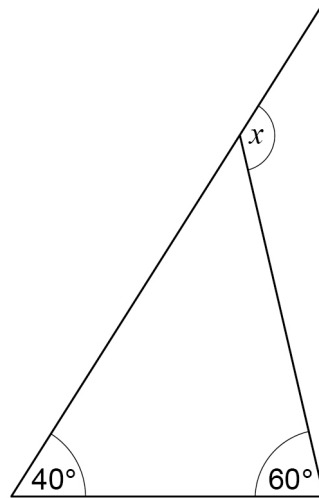
[3 marks]

Answer _____ degrees

2 In a **right-angled** triangle

smallest angle : largest angle = 2 : 5

Work out the three angles of the triangle.

[4 marks]

_____ degrees

_____ degrees

_____ degrees

3   One side of a triangle is extended.

Not drawn
accurately

Circle the size of angle x.

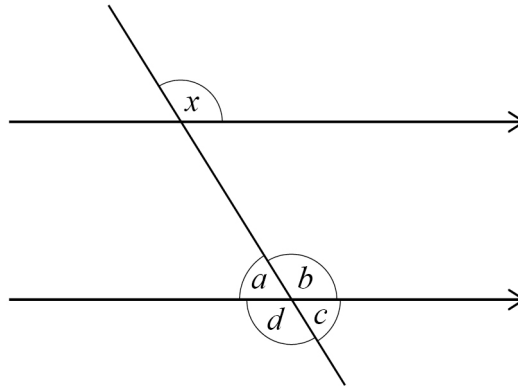**[1 mark]**

100°   80°   60°   40°

4   A straight line passes through two parallel lines.

Not drawn
accurately

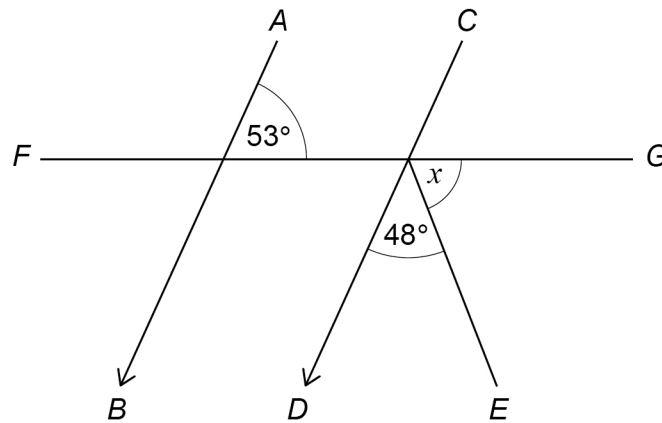Circle the angle that is **corresponding** to angle x.

[1 mark]

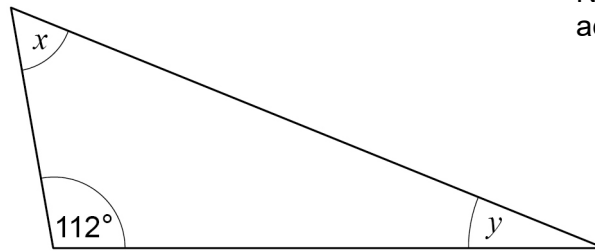a b c d

5   *AB* is parallel to *CD*.

FG is a straight line.

Not drawn
accurately

Work out the size of angle x.

[3 marks]

_____

_____

_____

_____

_____

_____

_____

_____

Answer _____ degrees

6 (a) Here is a different triangle.

Not drawn
accurately

$x = 3y$

Work out the size of angle y.

[3 marks]

_____

_____

_____

_____

_____

$y = $ _____ °

7
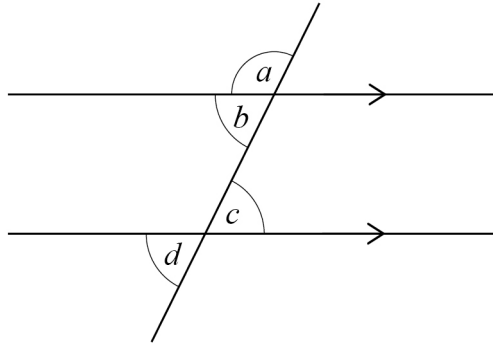
Circle the pair of alternate angles.

[1 mark]

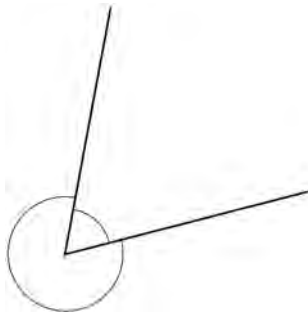a and b b and c c and d a and d

8 *ABC, BD* and *BE* are straight lines.
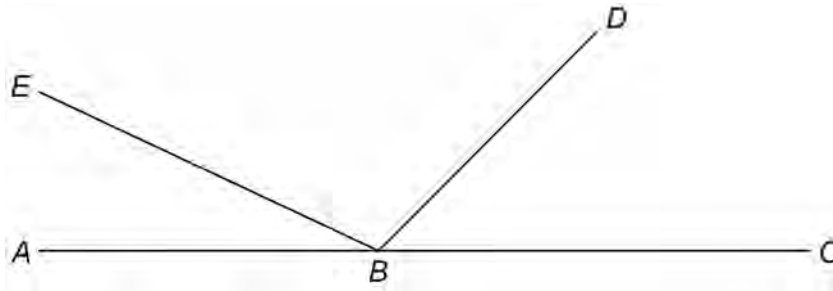
Not drawn
accurately

angle *EBD* = 5 × angle *ABE*

angle *DBC* = 3 × angle *ABE*

Work out the size of angle *EBD*.

[3 marks]

Answer _____ °

9   Two angles around a point are shown.

Not drawn
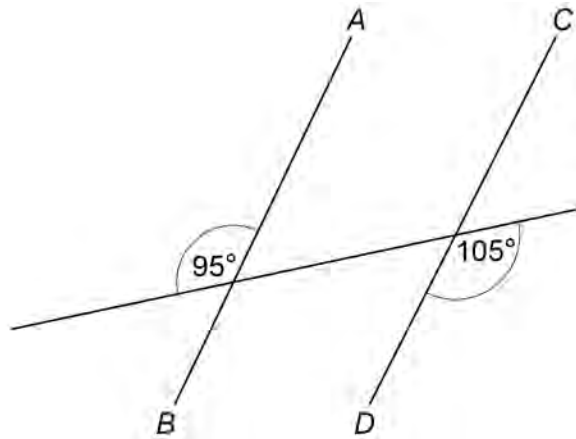accurately

The angles are in the ratio   2 : 7

Show that the larger angle is 280°

[2 marks]

10   Here are three straight lines.

Not drawn
accurately

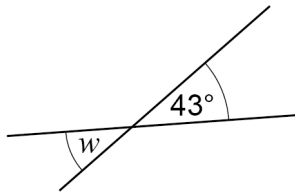Are the lines *AB* and *CD* parallel?

Tick a box.

Yes ☐   No ☐

Show working to support your answer.

[2 marks]

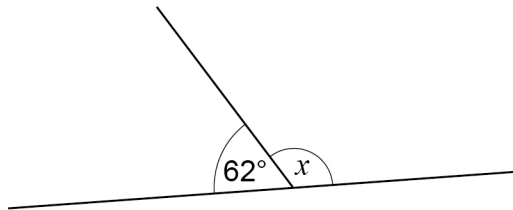**11** **(a)** Here are two straight lines.

Not drawn
accurately

Write down the size of angle w.

[1 mark]

$w =$ _____ degrees

11 **(b)** Here are two different straight lines.

Not drawn
accurately

Work out the size of angle x.

[1 mark]

_____

_____

$x =$ _____ degrees

11 **(c)** In a triangle, two of the angles are 51° and 74°.

Work out the size of the third angle.

[1 mark]

_____

_____

Answer _____ degrees

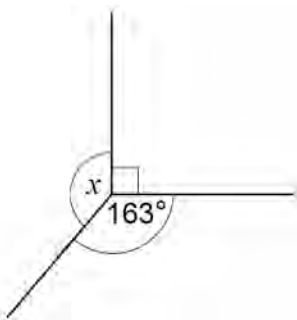**12**   *AB* is a straight line.
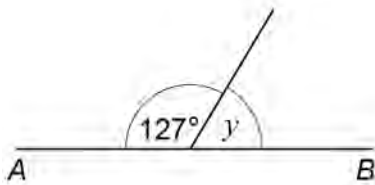
Not drawn
accurately

Is *y* half of *x* ?

Tick a box.

Yes ☐   No ☐

Show working to support your answer.

[3 marks