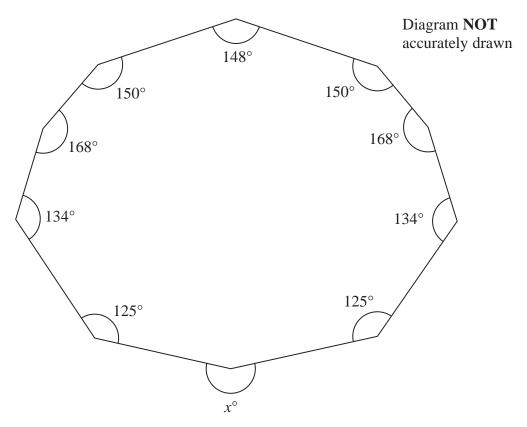
1 Here is a 10-sided polygon.



Work out the value of x.

 $x = \dots$

2 The diagram shows cuboid ABCDEFGH.

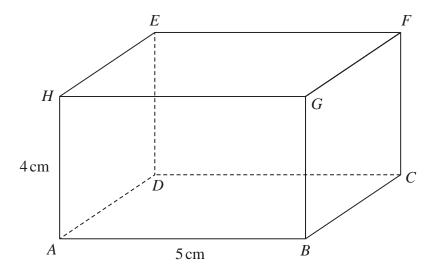


Diagram **NOT** accurately drawn

 $AB = 5 \,\mathrm{cm}$

 $AH = 4 \,\mathrm{cm}$

The size of the angle between CH and the plane ABCD is 35°

Calculate the volume of the cuboid.

Give your answer correct to 3 significant figures.

.....cm³

3 The diagram shows a rectangle and a diagonal of the rectangle.

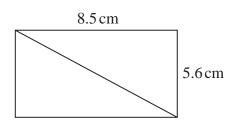


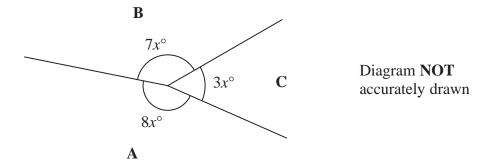
Diagram **NOT** accurately drawn

Work out the length of the diagonal of the rectangle. Give your answer correct to 1 decimal place.

.....cm

(Total for Question 3 is 3 marks)

4 The diagram shows parts of three regular polygons, A, B and C, meeting at a point.



Polygon **B** has n sides.

Work out the value of n.

 $n = \dots$

(Total for Question 4 is 4 marks)

5 The diagram shows a regular octagon ABCDEFGH and a regular pentagon ABIJK

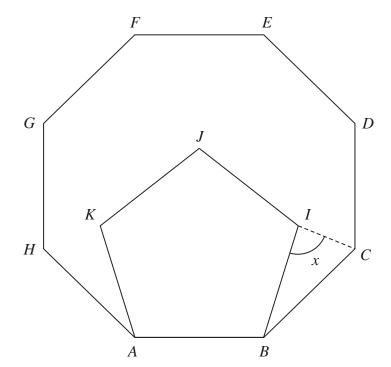


Diagram **NOT** accurately drawn

Work out the size of the angle x

0

6 The diagram shows a regular 10-sided polygon, ABCDEFGHIJ

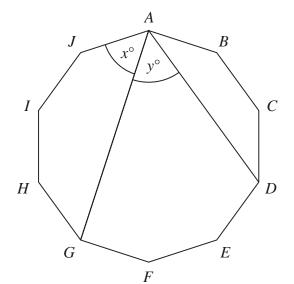


Diagram **NOT** accurately drawn

Show that x = y

(Total for Question 6 is 4 marks)