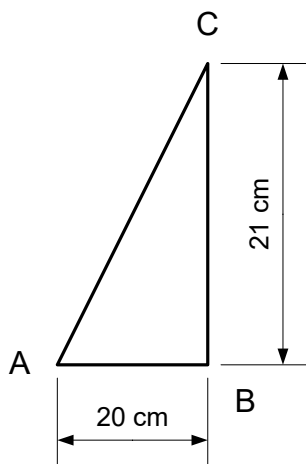


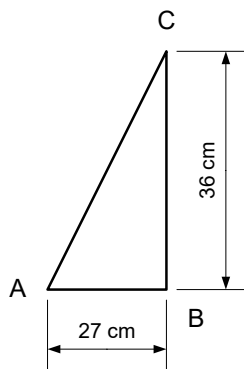
**Q1 I do. (2 Mark questions)**

ABC is a right-angled triangle. Calculate the length of side AC.



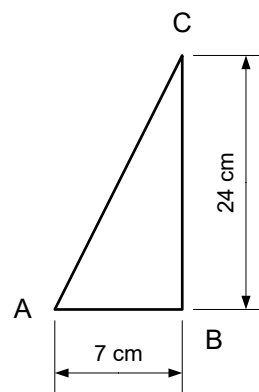
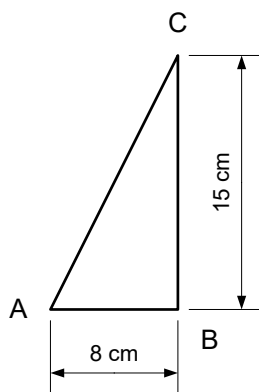
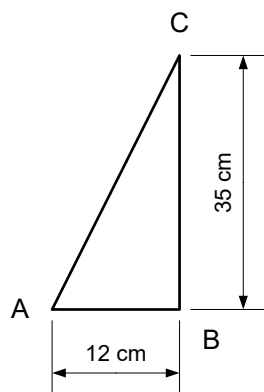
**Q2 We do.**

ABC is a right-angled triangle. Calculate the length of side AC.



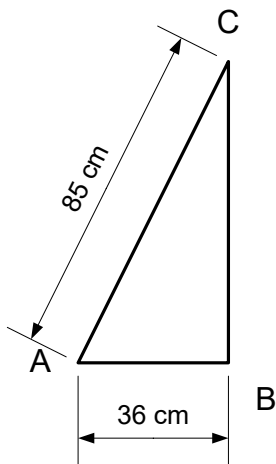
**Q3 You do.**

Each triangle ABC is a right-angled triangle. Calculate the length of side AC.



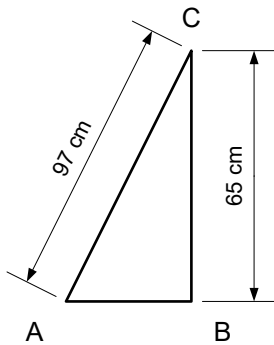
**Q4 I do. (2 Mark questions)**

ABC is a right-angled triangle. Calculate the length of side BC.



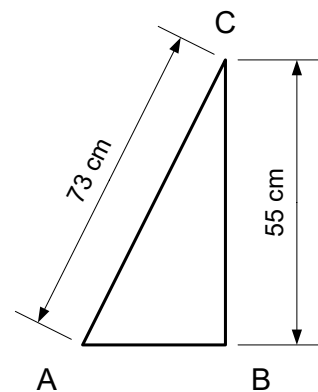
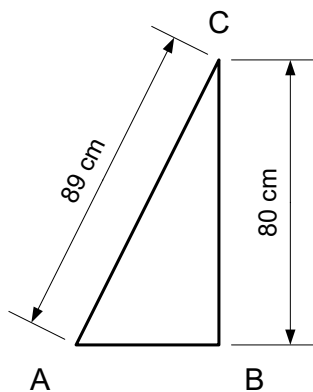
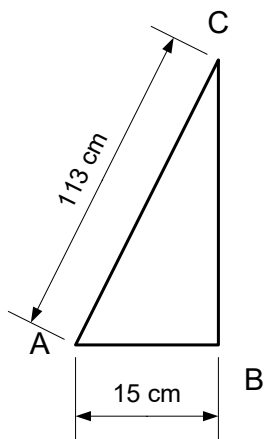
**Q5 We do.**

ABC is a right-angled triangle. Calculate the length of side AB.



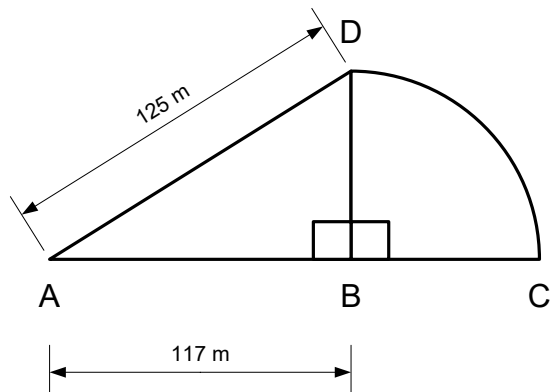
**Q6 You do.**

Each triangle ABC is a right-angled triangle. Calculate the length of the side whose dimension is missing.



**Q7 I do. (4 mark questions)**

The diagram shows a right-angled triangle and a quarter circle.



The triangle ABC has angle  $ABC=90^\circ$ . The quarter circle has centre B and radius BD.

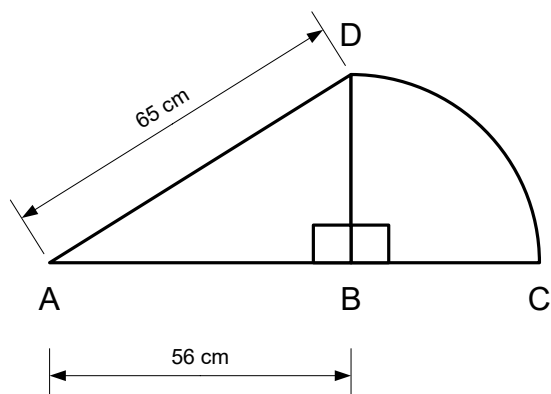
Work out the area of the quarter circle.

Give your answer correct to 3 significant figures.

You must show all your working.

**Q8 We do. (4 mark questions)**

The diagram shows a right-angled triangle and a quarter circle.



The triangle ABC has angle  $ABC=90^\circ$ . The quarter circle has centre B and radius BD.

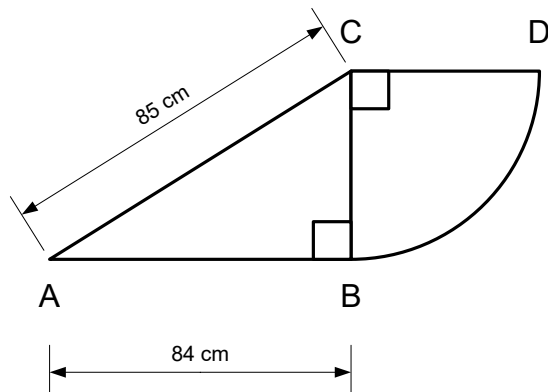
Work out the length of the arc CD.

Give your answer correct to 3 significant figures.

You must show all your working.

**Q9 You do. (4 mark questions)**

The diagram shows a right-angled triangle and a quarter circle.



The triangle ABC has angle  $ABC=90^\circ$ . The quarter circle has centre C and radius BC.

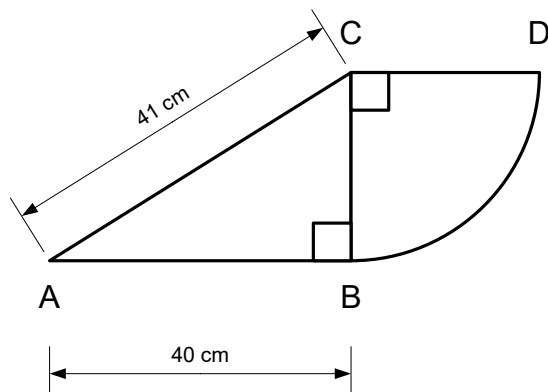
Work out the area of the quarter circle.

Give your answer correct to 3 significant figures.

You must show all your working.

**Q10 You do. (4 mark questions)**

The diagram shows a right-angled triangle and a quarter circle.



The triangle ABC has angle  $ABC=90^\circ$ . The quarter circle has centre C and radius BC.

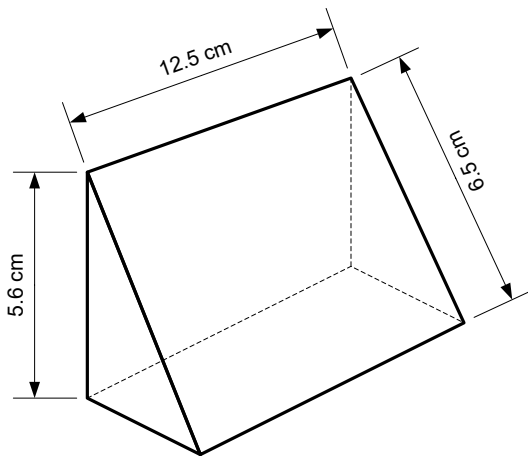
Work out the length of the arc CD.

Give your answer correct to 3 significant figures.

You must show all your working.

**Q11 I do (5 Mark question)**

Here is a triangular prism. The end section has a right angle.

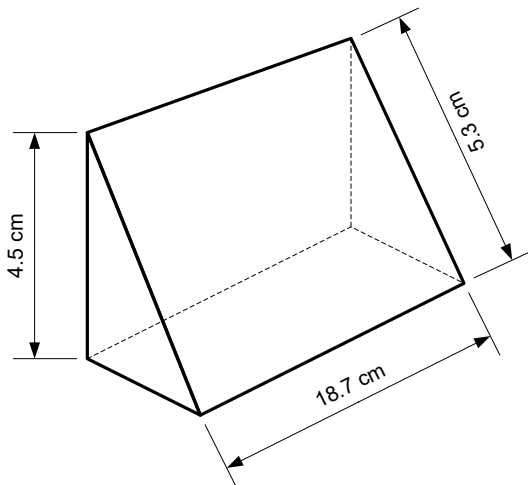


Work out the volume of the prism.

Give your answer correct to 3 significant figures.

**Q12 We do (5 Mark question)**

Here is a triangular prism. The end section has a right angle.

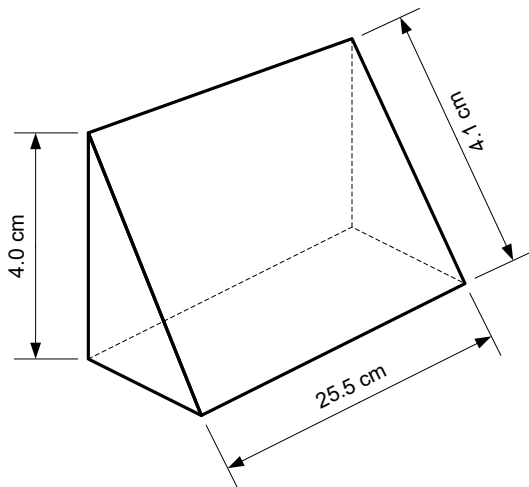


Work out the volume of the prism.

Give your answer correct to 3 significant figures.

**Q13** *You do (5 Mark question)*

Here is a triangular prism. The end section has a right angle.

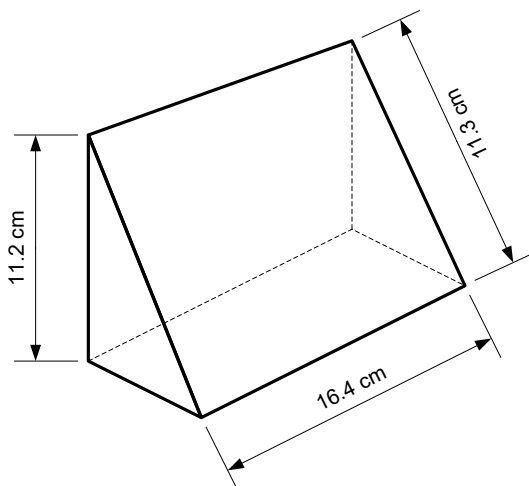


Work out the volume of the prism.

Give your answer correct to 3 significant figures.

**Q14** *You do (5 Mark question)*

Here is a triangular prism. The end section has a right angle.

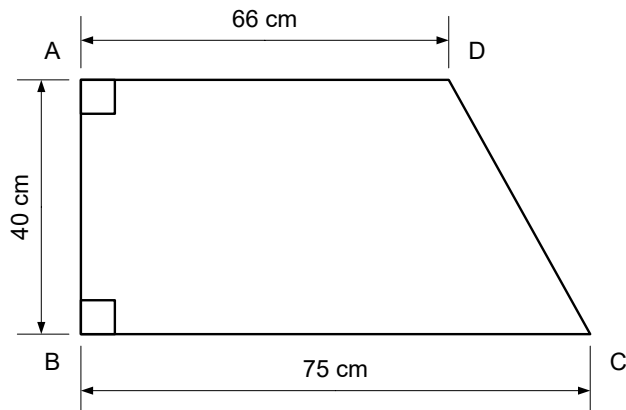


Work out the volume of the prism.

Give your answer correct to 3 significant figures.

**Q15 I do (5 mark question)**

ABCD is a trapezium.



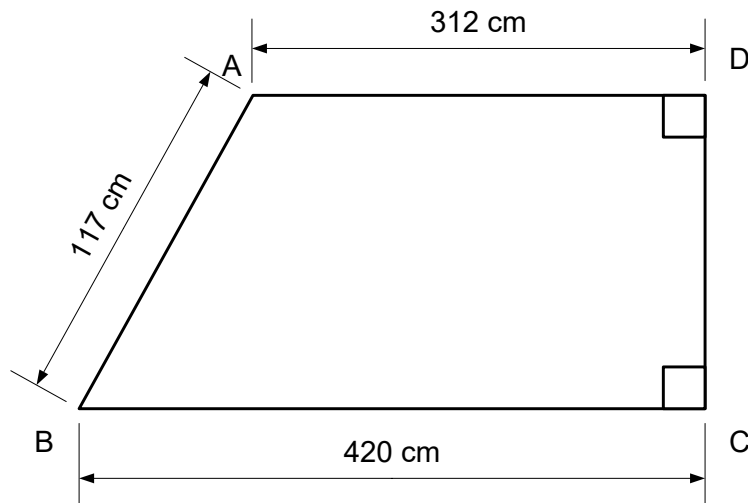
A square has the same perimeter as this trapezium.

Work out the area of the square.

Give your answer correct to 3 significant figures.

**Q16 We do (5 mark question)**

ABCD is a trapezium.



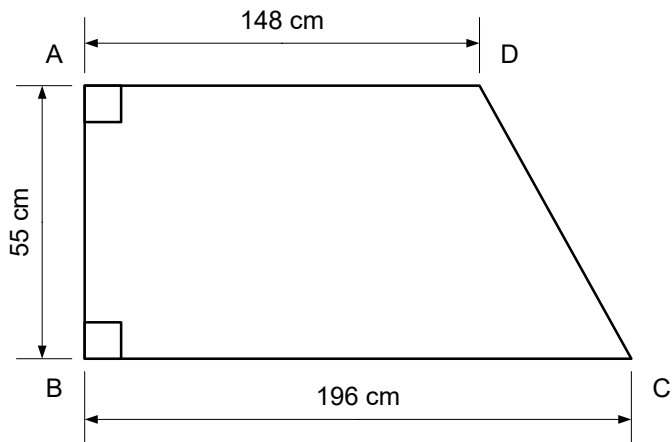
A square has the same perimeter as this trapezium.

Work out the area of the square.

Give your answer correct to 3 significant figures.

**Q17 You do (5 mark question)**

ABCD is a trapezium.



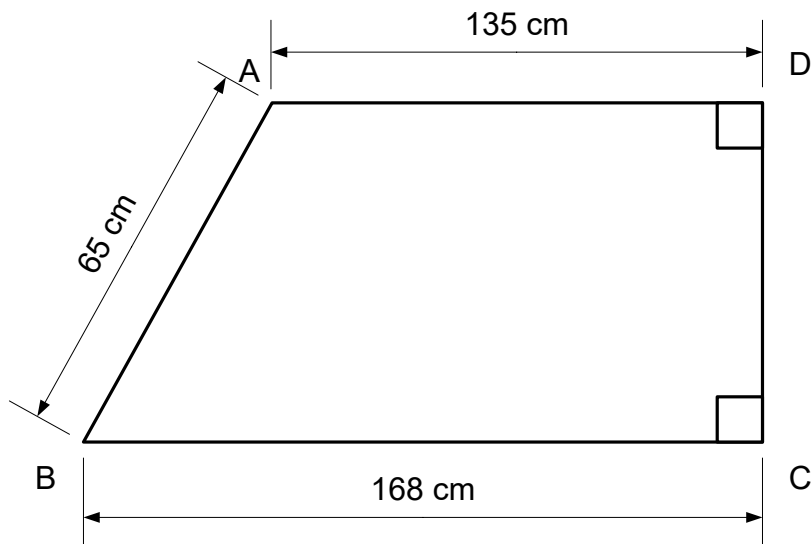
A square has the same perimeter as this trapezium.

Work out the area of the square.

Give your answer correct to 3 significant figures.

**Q18 You do (5 mark question)**

ABCD is a trapezium.



A square has the same perimeter as this trapezium.

Work out the area of the square.

Give your answer correct to 3 significant figures.





**Q19 I do (4 mark question)**

Triangle ABC has a perimeter of 40 cm.

AB = 8 cm.

BC = 15 cm.

Deduce whether ABC is a right-angled triangle.

**Q20 We do (4 mark question)**

Triangle ABC has a perimeter of 57 cm.

AB = 24 cm.

BC = 25 cm.

Deduce whether ABC is a right-angled triangle.

**Q21 You do (4 mark question)**

Triangle ABC has a perimeter of 125 cm.

AB = 48 cm.

BC = 73 cm.

Deduce whether ABC is a right-angled triangle.

**Q22 You do (4 mark question)**

Triangle ABC has a perimeter of 182 cm.

AB = 84 cm.

BC = 13 cm.

Deduce whether ABC is a right-angled triangle.

**Q23 You do (4 mark question)**

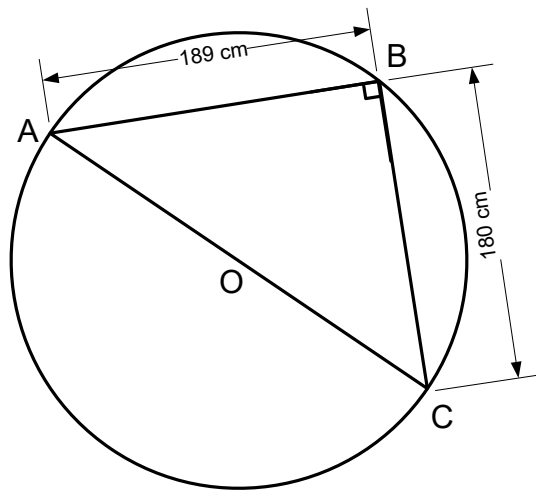
Triangle ABC has a perimeter of 330 cm.

AB = 137 cm.

BC = 88 cm.

Deduce whether ABC is a right-angled triangle.

**Q24 I do (4 mark question)**



The diagram is **NOT** drawn accurately.

ABC is a right-angled triangle. A, B and C are points on the circumference of a circle centred O.

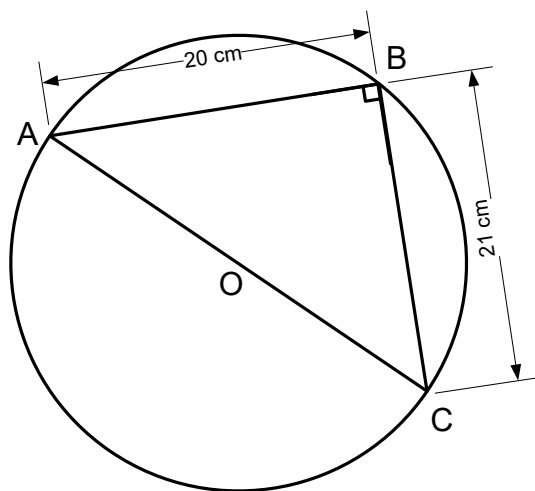
AB = 189 cm. BC = 180 cm.

AOC is the diameter of the circle.

Calculate the circumference of the circle.

Give your answer to 3 significant figures.

**Q25 We do (4 mark question)**



The diagram is **NOT** drawn accurately.

ABC is a right-angled triangle. A, B and C are points on the circumference of a circle centred O.

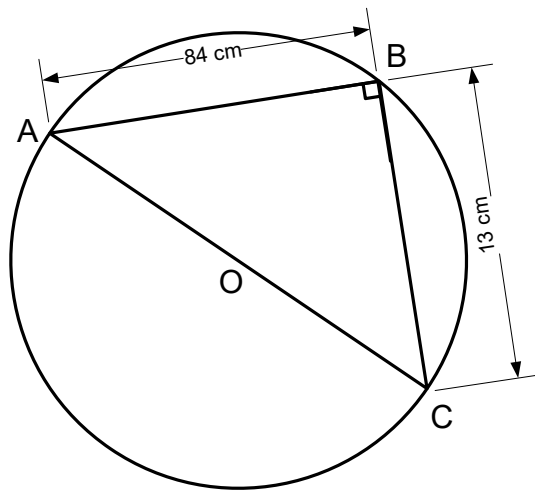
AB = 20 cm. BC = 21 cm.

AOC is the diameter of the circle.

Calculate the area of the circle.

Give your answer to 3 significant figures.

**Q26 We do (4 mark question)**



The diagram is **NOT** drawn accurately.

ABC is a right-angled triangle. A, B and C are points on the circumference of a circle centred O.

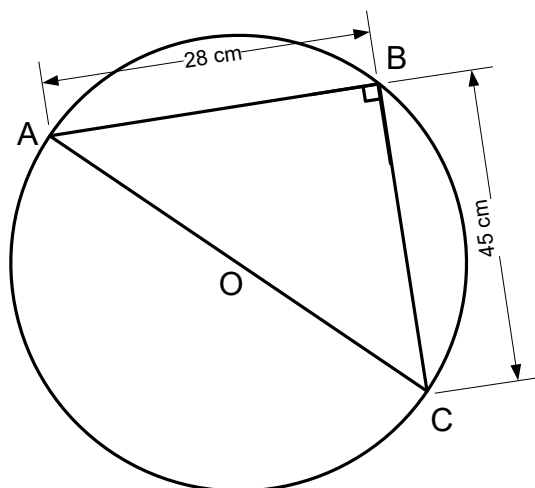
AB = 84 cm. BC = 13 cm.

AOC is the diameter of the circle.

Calculate the area of the circle.

Give your answer to 3 significant figures.

**Q27 We do (4 mark question)**



The diagram is **NOT** drawn accurately.

ABC is a right-angled triangle. A, B and C are points on the circumference of a circle centred O.

AB = 28 cm. BC = 45 cm.

AOC is the diameter of the circle.

Calculate the circumference of the circle.

Give your answer to 3 significant figures.