Diagram **NOT**
accurately drawn

8.3 cm

7.2 cm   3.9 cm

A   *D*   *B*

ABC is a triangle.
D is a point on *AB*.
CD is perpendicular to *AB*.
AD = 7.2 cm, *DB* = 3.9 cm, *AC* = 8.3 cm.

Calculate the size of angle *DBC*.
Give your answer correct to 1 decimal place.

Diagram **NOT**
accurately drawn

10 cm   *y* cm

4.5 cm

Calculate the value of *y*.
Give your answer correct to 3 significant figures.
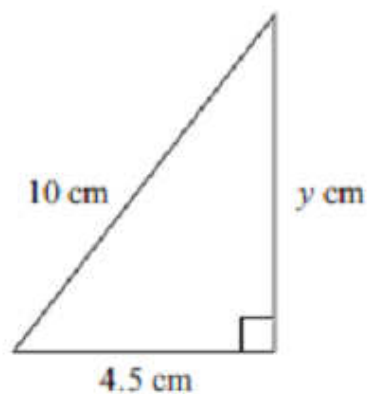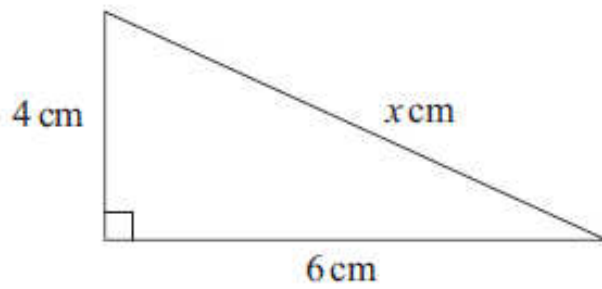
4 cm

x cm

Diagram **NOT** accurately drawn

6 cm

Calculate the value of x.
Give your answer correct to 3 significant figures.

L

Diagram **NOT** accurately drawn

18 cm

$\bullet$ O

M

A

B

24 cm
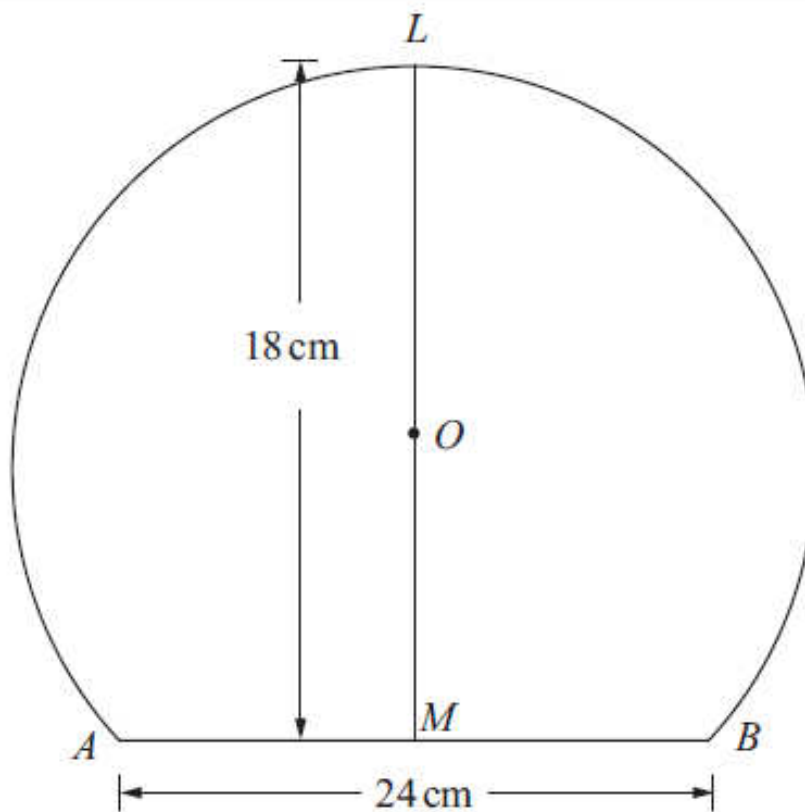
A, B and L are points on a circle, centre O.
AB is a chord of the circle.
M is the midpoint of AB.
LOM is a straight line.
$AB = 24$ cm.
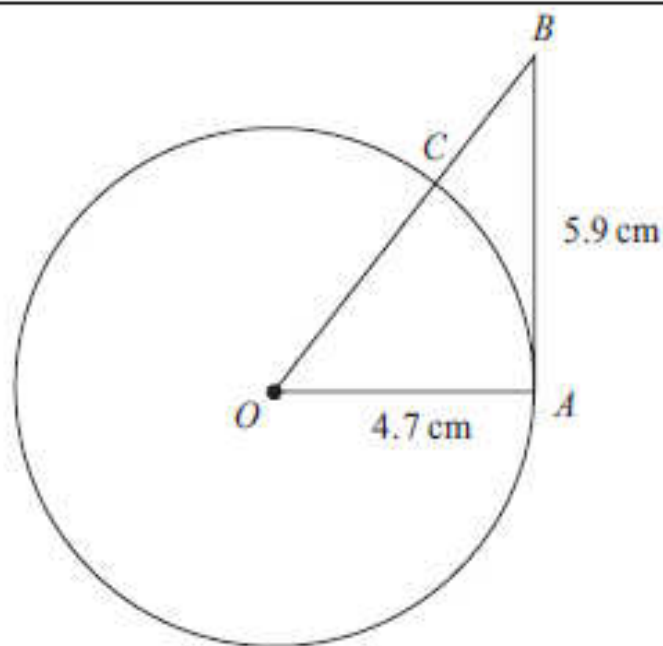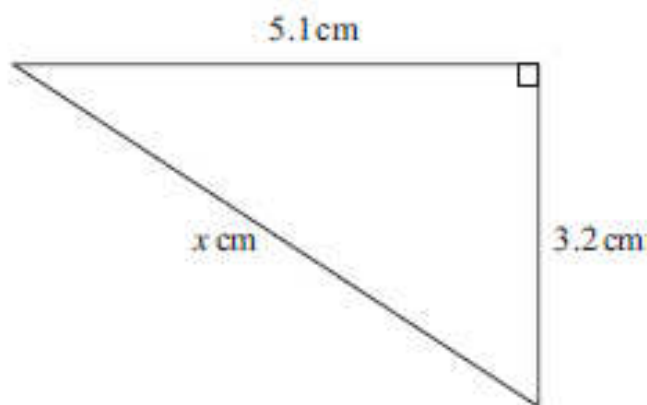$LM = 18$ cm.

Calculate the diameter of the circle.

B

Diagram **NOT** accurately drawn

C

5.9 cm

O   4.7 cm   A

A is a point on a circle with centre O and radius 4.7 cm.
AB is the tangent to the circle at A.
AB = 5.9 cm.
OB intersects the circle at C.

Calculate the length of BC.
Give your answer correct to 3 significant figures.

5.1cm

Diagram **NOT** accurately drawn

x cm

3.2 cm

Calculate the value of x.
Give your answer correct to 3 significant figures.