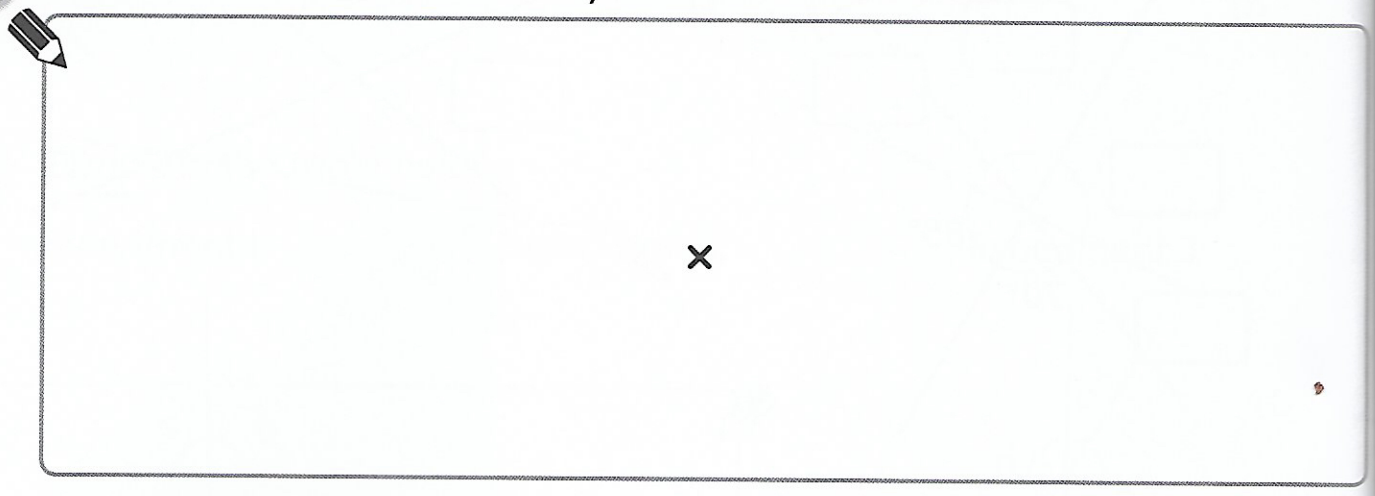
→ Textbook 6C p40

Equal distance

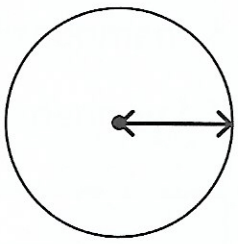
1 Draw 20 dots, each one exactly 25 mm from the cross.



Complete the sentence.
The dots are on a circle with a radius of ☐ mm.

2 Label whether each diagram shows the radius or the diameter. Measure and write the radius and diameter for each circle.

a)



Radius = ☐ mm

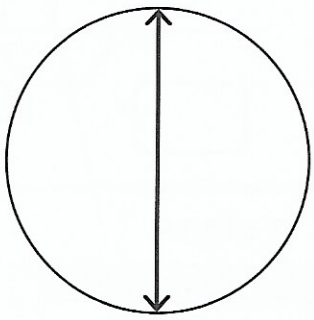
Diameter = ☐ mm

b)

Radius = ☐ mm

Diameter = ☐ mm

c)



Radius = ☐ mm

Diameter = ☐ mm

3 Tick the statements that are true.

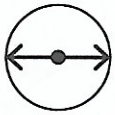
The radius is twice as long as the diameter. ☐

The diameter passes through the centre of the circle. ☐

If the radius is x, then the diameter is x + x. ☐

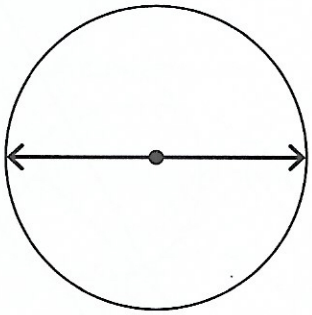
4 Calculate the radius of each circle.

a)



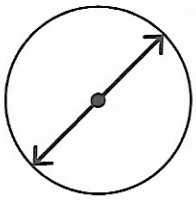
8 mm

b)



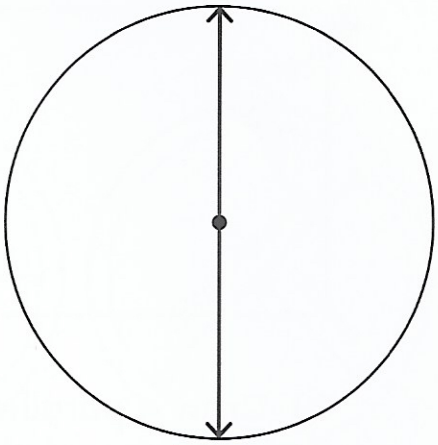
11 cm

c)



6.8 cm

d)



9.9 m

Not to scale

a) Radius = ☐ mm

b) Radius = ☐ cm

c) Radius = ☐ cm

d) Radius = ☐ m

5 **a)** Calculate the radius of a 2p coin.

Coins not actual size

13 cm

Radius = ☐ mm

b) This is a 5p coin.

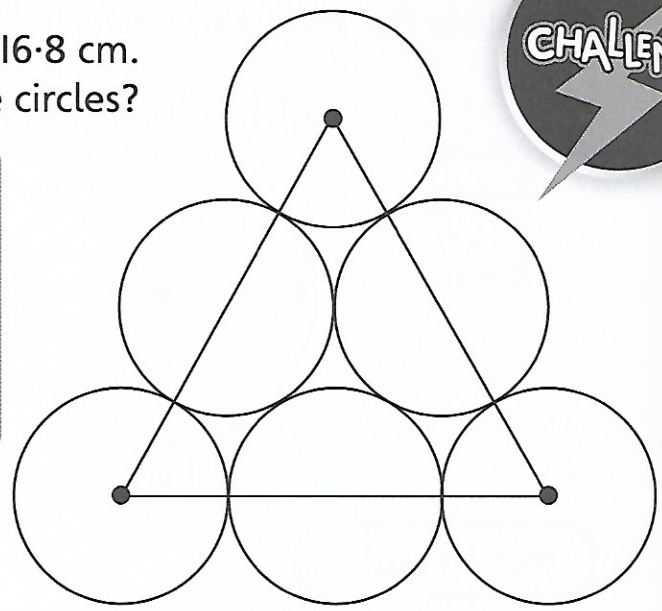
18 mm

Calculate the length of the line.

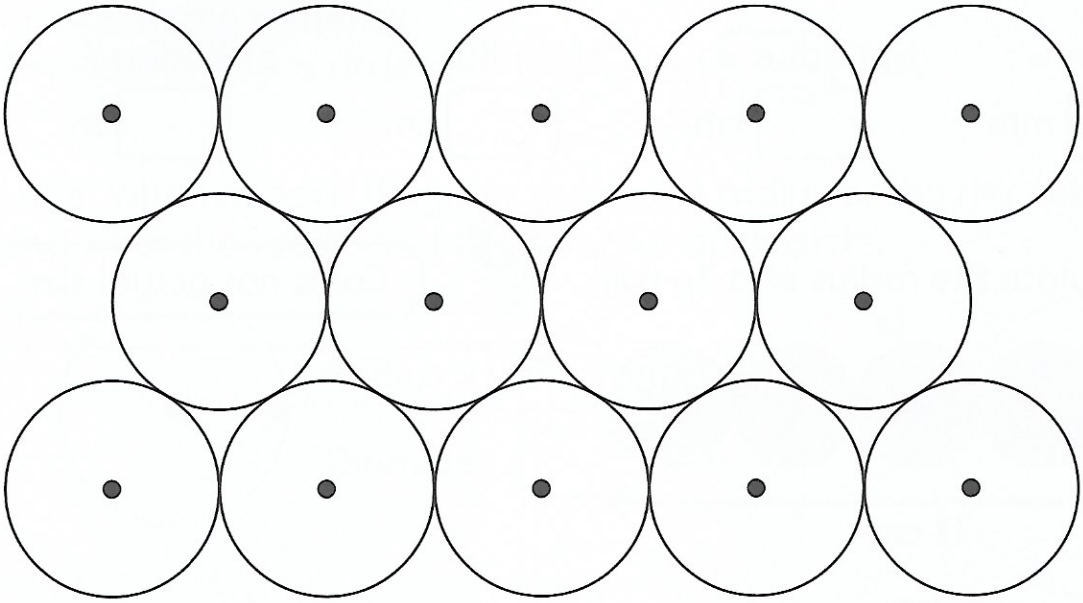
The line is ☐ mm

CHALLENGE

6 **a)** The perimeter of the triangle is 16·8 cm.
What is the radius of one of the circles?



b) Draw a parallelogram with a perimeter of 19·6 cm.



Reflect

Describe how to draw a circle with a diameter of 4 cm.