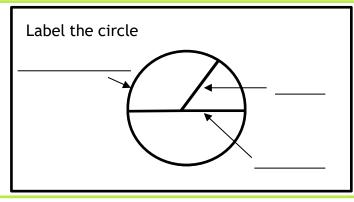
Building Blocks - Circles



100 1



Fill in the gaps

- a) Radius = 4 cm, diameter = ____
- b) Radius = $_$ ___, diameter = 3 m
- c) Circumference = $\underline{}r$ or $\underline{}d$
- d) Area of a circle = π _____

Find the exact circumference and area of the circles.

- a) Radius = 9 m
- b) Diameter = 4 cm
- c) Diameter = 5 mm

Block 2

Jane digs a circular flower bed in the garden.

The radius of the flower bed is 0.82 m.

Calculate the circumference of the flower bed.

The top of a table is a circle.

The diameter of the top of the table is 1.7 m.

Work out the area of the top of the table.

Peter has a flower garden in the shape of a circle.

The diameter of the garden is 7 metres.

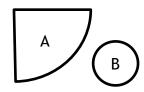
Peter wants to put fencing around the edge of the garden.

The fencing costs £5.60 per metre.

Work out the total cost of the fencing.

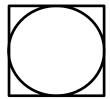
A is in the shape of a quarter circle of radius 12 cm.

B is in the shape of a circle.



The area of A is 9 times the area of B. Work out the radius of B.

The area of the square is 49 cm². Work out the circumference of the circle.

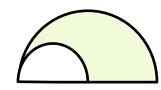


The shaded shape is made using two semicircles.

One semicircle has a diameter of 25 cm.

The other has diameter 10 cm.

Calculate the perimeter of the shaded shape.





Building Blocks - Circles



Block 1

Label the circle

Circumference

Radius

Diameter

Fill in the gaps

- a) Radius = 4 cm, diameter = $\frac{8 \text{ cm}}{1000}$
- b) Radius = $\frac{1.5 \text{ m}}{1.5 \text{ m}}$, diameter = 3 m
- c) Circumference = $\frac{2\pi}{r}$ or $\frac{\pi}{d}$
- d) Area of a circle = $\pi \underline{r^2}$

Find the exact circumference and area of the circles.

- a) Radius = 9 m $\begin{array}{c} C = 18\pi \text{ cm} \\ A = 81\pi \text{ cm}^2 \end{array}$
- b) Diameter = 4 cm $\begin{array}{c} C = 4\pi \text{ cm} \\ A = 4\pi \text{ cm}^2 \end{array}$
- c) Diameter = 5 mm $C = 5\pi$ cm $A = \frac{25}{4}\pi$ cm²

Block 2

Jane digs a circular flower bed in the garden. The radius of the flower bed is 0.82 m.

Calculate the circumference of the flower bed.

5.15 m

 2.27 m^2

The top of a table is a circle.

The diameter of the top of the table is $1.7\ m.$

Work out the area of the top of the table.

Peter has a flower garden in the shape of a circle.

The diameter of the garden is 7 metres.

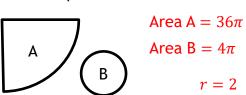
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The fencing costs £5.60 per metre.

Work out the total cost of the fencing. £123.15

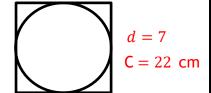
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