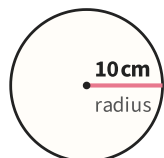


Area of a Circle

1

Work out the area to 1 decimal place.



$$r = 10 \text{ cm}$$

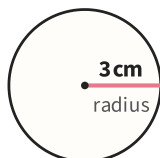
$$\pi \times 10 \times 10 =$$

314.1592654

$$A = 314.2 \text{ cm}^2$$

2

Work out the area to 1 decimal place.



$$r = 3 \text{ cm}$$

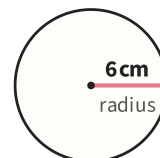
$$\pi \times 3 \times 3 =$$

28.27433388

$$A = 28.3 \text{ cm}^2$$

3

Work out the area to 1 decimal place.



$$r = 6 \text{ cm}$$

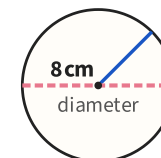
$$\pi \times 6 \times 6 =$$

113.0973355

$$A = 113.1 \text{ cm}^2$$

4

Work out the area to 1 decimal place.



$$r = 8 \div 2 = 4 \text{ cm}$$

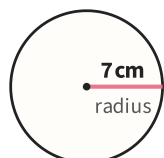
$$\pi \times 4 \times 4 =$$

50.26548246

$$A = 50.3 \text{ cm}^2$$

5

Work out the area to 1 decimal place.



$$r = 7 \text{ cm}$$

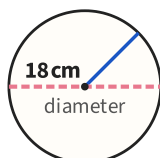
$$\pi \times 7 \times 7 =$$

153.93804

$$A = 153.9 \text{ cm}^2$$

6

Work out the area to 1 decimal place.



$$r = 18 \div 2 = 9 \text{ cm}$$

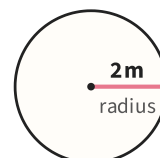
$$\pi \times 9 \times 9 =$$

254.4690049

$$A = 254.5 \text{ cm}^2$$

7

A round rug has a radius of 2 m. Work out its area to 1 decimal place.



$$r = 2 \text{ m}$$

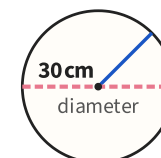
$$\pi \times 2 \times 2 =$$

12.56637061

$$A = 12.6 \text{ m}^2$$

8

A round clock face has a diameter of 30 cm. Work out its area to 1 decimal place.



$$r = 30 \div 2 = 15 \text{ cm}$$

$$\pi \times 15 \times 15 =$$

706.8583471

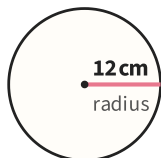
$$A = 706.9 \text{ cm}^2$$

Area of a Circle *further practice*

ANSWERS 

9

Work out the area to 1 decimal place.



$$r = 12 \text{ cm}$$

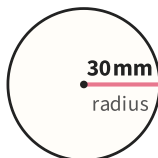
$$\pi \times 12 \times 12 =$$

452.3893421

$$A = 452.4 \text{ cm}^2$$

10

Work out the area to 1 decimal place.



$$r = 30 \text{ mm}$$

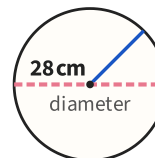
$$\pi \times 30 \times 30 =$$

2827.433388

$$A = 2827.4 \text{ mm}^2$$

11

Work out the area to 1 decimal place.



$$r = 28 \div 2 = 14 \text{ cm}$$

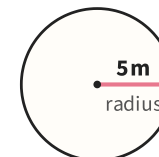
$$\pi \times 14 \times 14 =$$

615.7521601

$$A = 615.8 \text{ cm}^2$$

12

A round flower bed has a radius of 5 m. Work out its area to 1 decimal place.



$$r = 5 \text{ m}$$

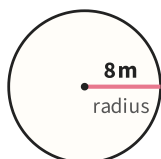
$$\pi \times 5 \times 5 =$$

78.53981634

$$A = 78.5 \text{ m}^2$$

13

A round pond has a radius of 8 m. Work out the area of the pond to 1 decimal place.

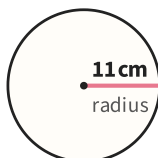


$$\pi \times 8 \times 8 = 201.0619298$$

Answer 201.1 m²

14

A circle has a radius of 11 cm. Is its area more than 400 cm²?



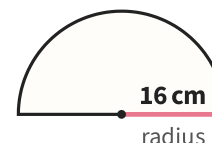
$$\pi \times 11 \times 11 = 380.1327111$$

380.1 cm² is less than 400 cm²

Answer No, 380.1 cm²

15

This shape is half a circle. Work out its area to 1 decimal place.



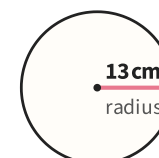
$$\pi \times 16 \times 16 = 804.2477193$$

$$804.2477193 \div 2 = 402.1$$

Answer 402.1 cm²

16

A circle has a radius of 13 cm. Sam writes $\pi \times 13 \times 2 = 81.7 \text{ cm}^2$. What has he done wrong?



Sam should do $\pi \times 13 \times 13$

Right answer 530.9 cm²