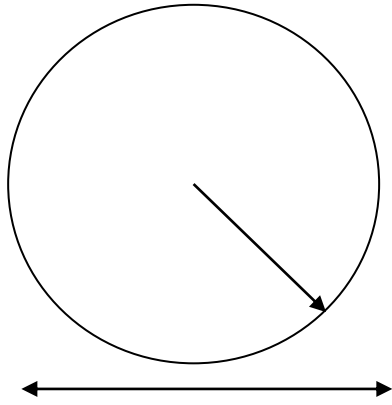


# REVISION CIRCLES



$$\text{Area of circle} = \pi r^2$$

$$\text{Circumference} = 2\pi r$$

Find the circumference of the following:

Q.1 Radius = 12.5m

Q.2 Radius = 34.56m

Q.3 Radius = 23.57m

Q.4 Radius = 19.45m

$$\begin{aligned} \text{Q1} \quad 2\pi r &= \text{Circumference} \\ 2 * \pi * 12.5 &= \text{Circumference} \\ 2 * \pi * 12.5 &= 78.540\text{m} \end{aligned}$$

Given circumference find radius:

Q.5 Circumference = 42.28m

Q.6 Circumference = 157.10m

Q.7 Circumference = 125.68m

Q.8 Circumference = 201m

$$\begin{aligned} \text{Q5} \quad 2\pi r &= \text{Circumference} \\ 2 * \pi * r &= 42.8 \\ r &= \frac{42.28}{2\pi} \\ \text{radius} &= 6.729\text{m} \end{aligned}$$

Find the area of the following circles:

Q.9 Diameter = 12m

Q.10 Radius = 8.21m

Q.11 Diameter = 41.05m

Q.12 Radius = 15.4m

$$\begin{aligned} \text{Q9} \quad \text{Diameter} &= 12\text{m} \Rightarrow \text{Radius} = 6\text{m} \\ \pi r^2 &= \text{Area} \\ \pi * 6^2 &= \text{Area} \\ \pi * 6^2 &= 113.097\text{m}^2 \end{aligned}$$

Given area find radius:

Q.13 Area = 12.566m<sup>2</sup>

Q.14 Area = 40.715m<sup>2</sup>

Q.15 Area = 4.524m<sup>2</sup>

Q.16 Area = 30m<sup>2</sup>

$$\begin{aligned} \text{Q13} \quad \pi r^2 &= \text{Area} \\ \pi * r^2 &= 12.566 \\ r^2 &= \frac{12.566}{\pi} \\ r^2 &= 4 \\ r &= \sqrt{4} \\ r &= 2\text{m} \end{aligned}$$

# REVISION CIRCLES

## Answers

Q .1 Circumference = 78.540m

Q. 2 Circumference = 217.147m

Q. 3 Circumference = 148.095m

Q. 4 Circumference = 122.208m

Q .5 Radius = 6.729m

Q. 6 Radius = 25.003m

Q. 7 Radius = 20.003m

Q. 8 Radius = 31.990m

Q. 9 Area = 113.097m<sup>2</sup>

Q. 10 Area = 211.756m<sup>2</sup>

Q. 11 Area = 1323.476m<sup>2</sup>

Q. 12 Area = 745.060m<sup>2</sup>

Q .13 Radius = 2m

Q. 14 Radius = 3.6m

Q. 15 Radius = 1.2m

Q. 16 Radius = 3.09m