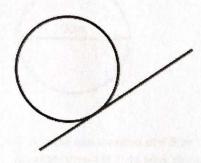


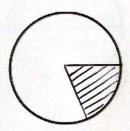
QT Circles

1. Write the mathematical name for the straight line touching the circle, as shown.

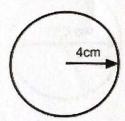


TANGENT

2. On the diagram below, draw a sector of the circle. Shade the sector.



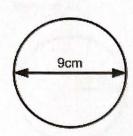
3. A circle has a radius of 4cm. Work out the circumference of the circle, giving your answer correct to 2 decimal places.



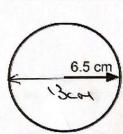
Circonformace = TD = Tx 8 = W. 13274 cm = W. 13 cm



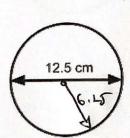
4. A circle has a diameter of 9cm. Calculate the circumference of the circle, giving your answer correct to 1 decimal place.



5. A circle has a radius of 6.5cm. Calculate the circumference of the circle, giving your answer correct to 1 decimal place.

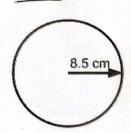


 6. A circle has a diameter of 12.5cm. Calculate the area of the circle, giving your answer correct to 2 decimal places.

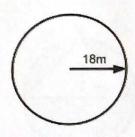




7. A circle has a radius of 8.5cm. Calculate the area of the circle, giving your answer in terms of π .

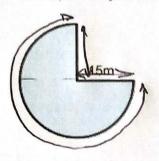


8. A circular field has a radius of 18 metres. A farmer wants to build a fence around the edge of the field. Each metre of fence will cost £22.75. Calculate the total cost of the fence.

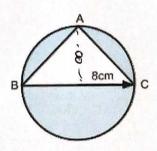




9. The diagram shows three quarters of a circle with a radius of 15m. Find the perimeter of the shape. Give your answer correct to 1 decimal place.



10. The diagram shows a circle with a radius of 8cm, and a triangle ABC. AB = AC. Find the area of the shaded region. Give your answer correct to 2 decimal places.



Area
$$\theta$$
 cicle = πr^{2}

= $\pi (\theta)^{2}$

Area θ triangle = $\frac{6}{4}$

= $\frac{16}{4}$

= $\frac{16}{4}$

= $\frac{16}{4}$

= $\frac{16}{4}$

= $\frac{16}{4}$

= $\frac{16}{4}$

= $\frac{16}{4}$