

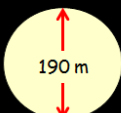
Outcome 1 - The Circumference of a Circle

Bronze examples

Examples... Calculate the circumference of the following circles...

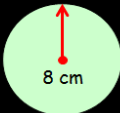
 $C = 3.14 \times 50$
 $= 157 \text{ cm}$

$C = 3.14 \times 190$
 $= 596.6 \text{ m}$



Silver examples

Examples... Calculate the circumference of the following circles...

 $C = 3.14 \times 16$
 $= 50.24 \text{ cm}$

****Double the radius to get the diameter!****

$C = 3.14 \times 30$
 $= 94.2 \text{ m}$



Gold examples

Examples... Calculate the diameters of the following circles...

$C = 15.7 \text{ cm}$
 $D = ?$

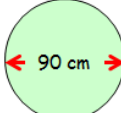
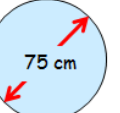
$D = 15.7 \div 3.14$
 $= 5 \text{ cm}$

$C = 113.04 \text{ m}$
 $D = ?$

$D = 113.04 \div 3.14$
 $= 36 \text{ m}$

Bronze Questions

Calculate the circumferences of these circles...

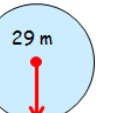
1  2  3 

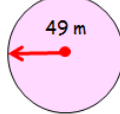
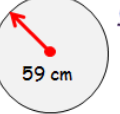
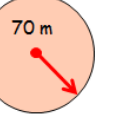
4  5  6 

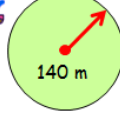
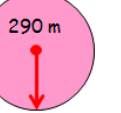
7  8  9 

Silver Questions

Calculate the circumferences of these circles...

1  2  3 

4  5  6 

7  8  9 

Gold Questions

Calculate the diameters of the following circles...

1 $C = 43.96 \text{ cm}$ 2 $C = 81.64 \text{ mm}$ 3 $C = 103.62 \text{ cm}$

4 $C = 141.3 \text{ m}$ 5 $C = 175.84 \text{ m}$ 6 $C = 197.82 \text{ cm}$

7 $C = 492.98 \text{ cm}$ 8 $C = 898.04 \text{ m}$ 9 $C = 2041 \text{ cm}$

Key Facts/Formulae:

Circumference: $C = \pi \times D$
 Diameter: $D = C \div \pi$

Bronze Answers

1. 282.6 cm 2. 150.72 mm 3. 235.5 cm
4. 116.18 m 5. 1256 m 6. 1004.8 cm
7. 2166.6 cm 8. 3108.6 mm 9. 4396 m

Silver Answers

1. 25.12 cm 2. 75.36 mm 3. 182.12 m
4. 307.72 m 5. 370.52 cm 6. 439.6 m
7. 879.2 m 8. 979.68 mm 9. 1821.2 m

Gold Answers

1. 14 cm 2. 26 mm 3. 33 cm
4. 45 m 5. 56 m 6. 63 cm
7. 157 cm 8. 286 mm 9. 650 cm