

$$r = d \div 2 \quad r = \sqrt{\frac{A}{\pi}} \quad d = \frac{C}{\pi} \quad C = 2\pi r \quad A = \pi r^2$$

Circumference and Area of Circles		
Radius	Circumference	Area
7 cm	$C = 2\pi r$ $= 2 \times 3.14 \times 7$ $= 3.14 \times 14$ $= 43.96 \text{ cm.}$	$A = \pi r^2$ $= 3.14 \times (7)^2$ $= 3.14 \times (49)$ $= 153.86 \text{ cm}^2$
$d = 7$ $r = d \div 2$ $= 7 \div 2$ $= 3.5 \text{ cm}$	$21.98 \text{ m}$ $d = \frac{C}{\pi}$ $= \frac{21.98}{3.14}$ $= 7 \text{ m}$	$A = \pi r^2$ $= 3.14 \times (3.5)^2$ $= 3.14 \times 12.25$ $= 38.47 \text{ cm}^2$
$r = \sqrt{\frac{A}{\pi}}$ $= \sqrt{\frac{28.26}{3.14}}$ $= 3 \text{ cm}$	$C = 2\pi r$ $= 2 \times 3.14 \times 3$ $= 3.14 \times 6$ $= 18.84 \text{ cm}$	28.26 cm <sup>2</sup>
11 m	$C = 2\pi r$ $= 2 \times 3.14 \times 11$ $= 3.14 \times 22$ $= 69.08 \text{ m}$	$A = \pi r^2$ $= 3.14 \times (11)^2$ $= 3.14 \times 121$ $= 379.94 \text{ m}^2$
$d = \frac{C}{\pi} = \frac{38.3}{3.14} = 12.20 \text{ m}$ $r = d \div 2$ $= 12.20 \div 2$ $= 6.10 \text{ m}$	38.3 m	$A = \pi r^2$ $= 3.14 \times (6.10)^2$ $= 3.14 \times (37.21)$ $= 116.84 \text{ m}^2$
$r = \sqrt{\frac{A}{\pi}}$ $= \sqrt{10}$ $= 3.16 \text{ m}$	$C = 2\pi r$ $= 2 \times 3.14 \times 3.16$ $= 3.14 \times 6.32$ $= 19.84 \text{ m}$	31.4 m <sup>2</sup>
4.7 mm	$C = 2\pi r$ $= 2 \times 3.14 \times 4.7$ $= 3.14 \times 9.4$ $= 29.52 \text{ mm}$	$A = \pi r^2$ $= 3.14 \times (4.7)^2$ $= 3.14 \times (22.09)$ $= 69.36 \text{ mm}^2$
$d = \frac{C}{\pi} = \frac{55.5}{3.14} = 17.68 \text{ km}$ $r = d \div 2$ $= 17.68 \div 2$ $= 8.84 \text{ km}$	55.5 km	$A = \pi r^2$ $= 3.14 \times (8.84)^2$ $= 3.14 \times (78.15)$ $= 245.39 \text{ km}^2$
$r = \sqrt{\frac{A}{\pi}}$ $= \sqrt{20.03}$ $= 4.48 \text{ cm}$	$C = 2\pi r$ $= 2 \times 3.14 \times 4.48$ $= 3.14 \times 8.96$ $= 28.13 \text{ cm.}$	62.9 cm <sup>2</sup>