

# Fill in the Blanks

# Area of a Sector

Radius	Angle	Fraction	Area
8 cm	90°	$\frac{90}{360} = \frac{1}{4}$	$\frac{90}{360} \times \pi \times 8^2 = 50.3 \text{ cm}^2$
7 cm	45°	$\frac{45}{360} = \frac{1}{8}$	$\frac{45}{360} \times \pi \times 7^2 = 19.2 \text{ cm}^2$
15 mm	60°	$\frac{60}{360} = \frac{1}{6}$	$\frac{60}{360} \times \pi \times 15^2 = 117.8 \text{ mm}^2$
4 cm	75°	$\frac{75}{360} = \frac{5}{24}$	$\frac{75}{360} \times \pi \times 4^2 = 10.5 \text{ cm}^2$
1.8 m	130°	$\frac{130}{360} = \frac{13}{36}$	$\frac{130}{360} \times \pi \times 1.8^2 = 3.7 \text{ m}^2$
82 mm	335°	$\frac{335}{360} = \frac{67}{72}$	$\frac{335}{360} \times \pi \times 82^2 = 19657.1 \text{ mm}^2$
11 cm	275°	$\frac{275}{360} = \frac{55}{72}$	$\frac{275}{360} \times \pi \times 11^2 = 290.4 \text{ cm}^2$
9 mm	50°	$\frac{50}{360} = \frac{5}{36}$	$\frac{50}{360} \times \pi \times 9^2 = 35.3 \text{ mm}^2$
10 cm	280°	$\frac{280}{360} = \frac{7}{9}$	$\frac{280}{360} \times \pi \times 10^2 = 244.3 \text{ cm}^2$
25 mm	60°	$\frac{60}{360} = \frac{1}{6}$	$\frac{60}{360} \times \pi \times 25^2 = 327.2 \text{ mm}^2$
2 m	135°	$\frac{135}{360} = \frac{3}{8}$	$\frac{135}{360} \times \pi \times 2^2 = 4.712 \text{ m}^2$
3 cm	35°	$\frac{35}{360} = \frac{7}{72}$	$\frac{35}{360} \times \pi \times 3^2 = 2.75 \text{ cm}^2$
13 mm	315°	$\frac{315}{360} = \frac{7}{8}$	$\frac{315}{360} \times \pi \times 13^2 = 464.6 \text{ mm}^2$
10 cm	58°	$\frac{58}{360} = \frac{29}{180}$	$\frac{58}{360} \times \pi \times 10^2 = 50.61 \text{ cm}^2$