

# Fill in the Blanks

## Arc Length & Perimeter of a Sector

Radius	Angle	Arc Length	Perimeter
8 cm	90°	$\frac{90}{360} \times \pi \times 2 \times 8 = 12.6 \text{ cm}$	28.6 cm
7 cm	45°	$\frac{45}{360} \times \pi \times 2 \times 7 = 5.5 \text{ cm}$	
15 mm	60°	$\frac{60}{360} \times \pi \times 2 \times 15 = 15.7 \text{ mm}$	
4 cm	75°		
1.8 m	130°		
82 mm	335°		
11 cm	275°		
9 mm	32°		
10 cm		$\frac{\square}{360} \times \pi \times 2 \times 10 = 13.96 \text{ cm}$	
25 mm		$\frac{\square}{360} \times \pi \times 2 \times 25 = 93.81 \text{ mm}$	
2 m		$\frac{\square}{360} \times \pi \times 2 \times 2 = \square \text{ m}$	5.05 m
8.9 cm		$\frac{\square}{360} \times \pi \times 2 \times 8.9 = \square \text{ cm}$	35.2 m
		$\frac{\square}{360} \times \pi \times 2 \times \square = 4.61 \text{ cm}$	15.61 cm
		$\frac{\square}{360} \times \pi \times 2 \times \square = 55.29 \text{ mm}$	99.29 mm