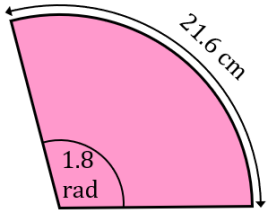
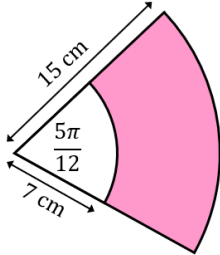


Match-Up

Arc Length and Perimeter in Radians

1	Find the arc length in cm of a sector with radius 15 cm and angle 1.3 radians.	2	Find the arc length in cm of a sector with radius 8 cm and angle $\frac{7\pi}{4}$ radians.	A	1.6
				B	2.2
3	Find the radius in cm. 	4	Find the angle in radians subtended by an arc of length 12 cm when the radius is 7.5 cm.	C	$5\pi + 16$
				D	$\frac{3\pi}{5}$
5	Find the perimeter in cm of a sector with an angle of 0.85 radians and a radius of 8 cm.	6	A sector has a perimeter of 44.1 cm. Given that its radius is 10.5 cm, find the angle in radians.	E	19.5
				F	0.9
7	The perimeter of a sector with radius 12 cm is the same as the perimeter of a square with area 100 cm^2 . Find the angle of the sector in radians.	8	Find the perimeter in cm of a sector with a radius of 8 cm and an angle of $\frac{5\pi}{8}$ radians.	G	12
				H	14π
9	The perimeter of a sector is $(9\pi + 30)$ cm. If the radius is 15 cm, find the angle in radians.	10	The perimeter of a rectangle of length 8 cm and width 6.5 cm is half the perimeter of a sector with radius 20 cm. Find the angle of the sector in radians.	I	$\frac{55\pi}{6} + 16$
				J	11
11	The perimeter of a sector is 35.75 cm. If the angle at the centre of the sector is 1.25 radians, find its radius in cm.	12	Find the perimeter of the shaded shape in cm. 	K	$\frac{4}{3}$
				L	22.8

1	2	3	4	5	6	7	8	9	10	11	12
E	H	G	A	L	B	K	C	D	F	J	I