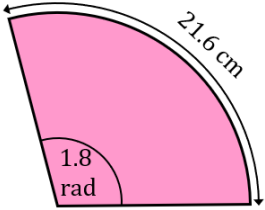
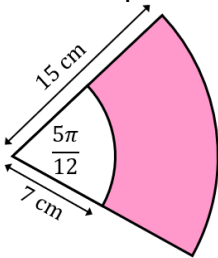


## Match-Up Arc Length and Perimeter in Radians

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

[illegible]