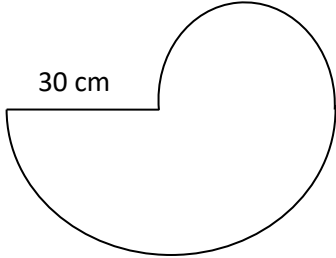
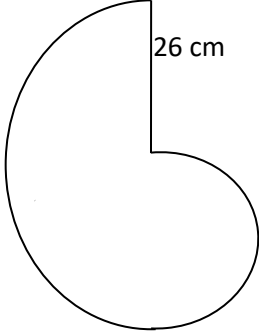
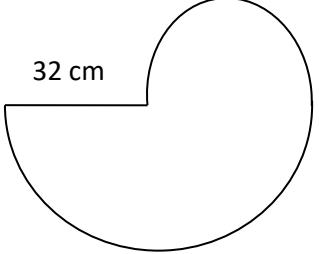
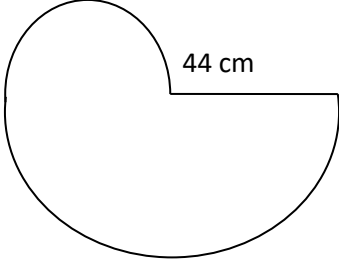
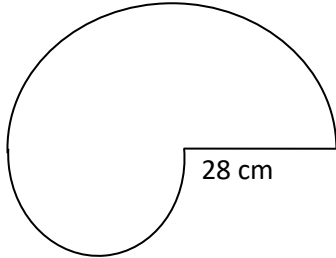
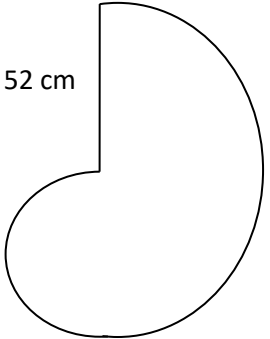
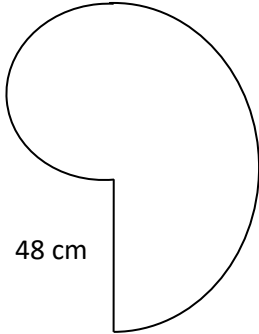
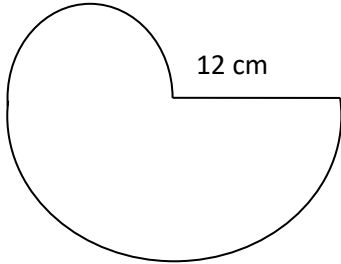
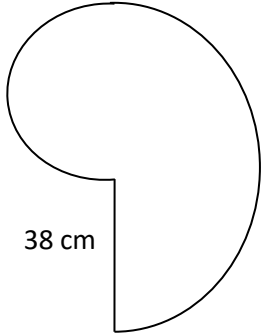


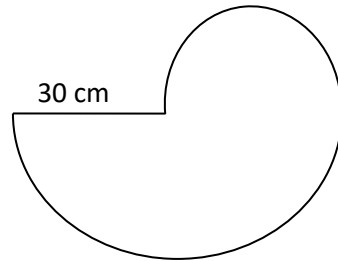
MATHS WORKSHEETS- AREA AND PERIMETER OF SHAPES- BIG AND SMALL SEMICIRCLES

Calculate the area and perimeter of the following shapes correct to 2 decimal places.

<p>1.</p>  <p>Perimeter: Area:</p>	<p>2.</p>  <p>Perimeter: Area:</p>	<p>3.</p>  <p>Perimeter: Area:</p>
<p>4.</p>  <p>Perimeter: Area:</p>	<p>5.</p>  <p>Perimeter: Area:</p>	<p>6.</p>  <p>Perimeter: Area:</p>
<p>7.</p>  <p>Perimeter: Area:</p>	<p>8.</p>  <p>Perimeter: Area:</p>	<p>9.</p>  <p>Perimeter: Area:</p>

MATHS WORKSHEETS- AREA AND PERIMETER OF SHAPES- BIG AND SMALL SEMICIRCLES

Answer Key:



Assume, 2 semi-circles
 Big circle = $R = 30$ cm
 Small circle = $r = 15$ cm

Area = Area of 2 semicircle $R = 30$ cm & $r = 15$ cm

$$\begin{aligned}
 &= \frac{\pi R^2}{2} + \frac{\pi r^2}{2}, \text{ where } \pi = 3.1416 \\
 &= (3.1416 * 30 * 30) / 2 + (3.1416 * 15 * 15) / 2 \\
 &= 1413.72 + 353.43 \\
 &= 1767.15 \text{ cm}^2
 \end{aligned}$$

Perimeter = Perimeter of big semicircle + Perimeter of small semicircle + R

$$\begin{aligned}
 &= \pi R + \pi r + R \\
 &= (3.1416 * 30) + (3.1416 * 15) + 30 = 171.37 \text{ cm}^2
 \end{aligned}$$

	Area	Perimeter
1.	1767.15 cm ²	171.37 cm
2.	1327.33 cm ²	148.52 cm
3.	2010.62 cm ²	182.80 cm
4.	3801.34 cm ²	251.35 cm
5.	1539.38 cm ²	159.95 cm
6.	5309.30 cm ²	297.04 cm
7.	4523.90 cm ²	274.20 cm
8.	282.74 cm ²	68.55 cm
9.	2835.29 cm ²	217.07 cm