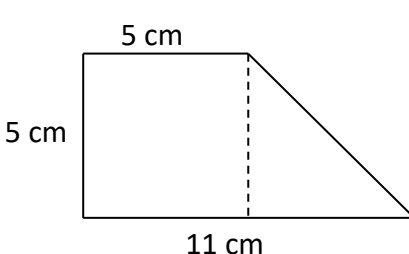
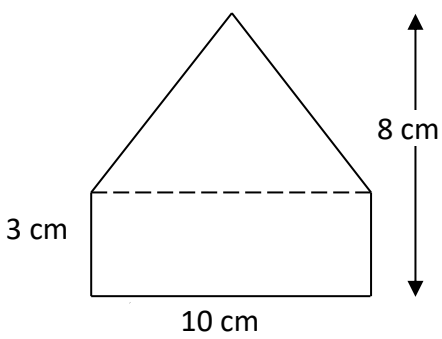
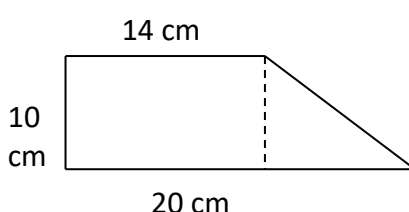
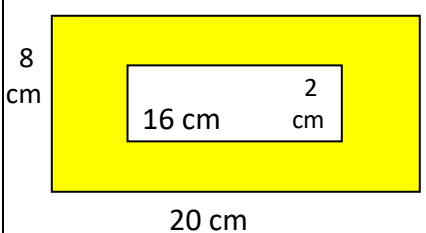
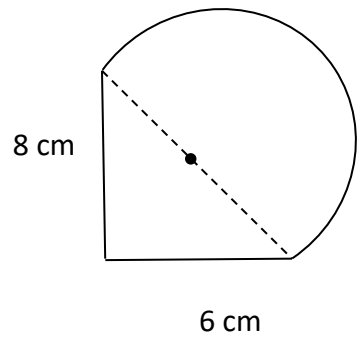
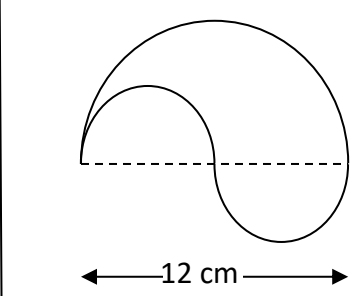
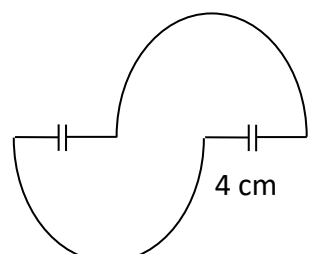
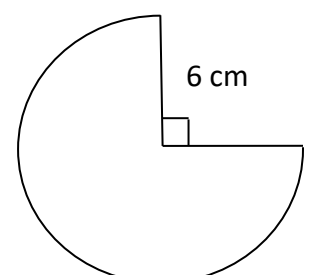
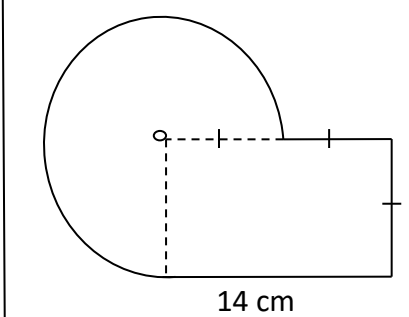


MATHS WORKSHEETS – GEOMETRY – AREA OF COMPOSITE SHAPES

Find the area of the following composite shapes.

<p>1.</p>  <p style="text-align: center;">Area =</p>	<p>2.</p>  <p style="text-align: center;">Area =</p>	<p>3.</p>  <p style="text-align: center;">Area =</p>
<p>4.</p>  <p style="text-align: center;">Area =</p>	<p>5.</p>  <p style="text-align: center;">Area =</p>	<p>6.</p>  <p style="text-align: center;">Area =</p>
<p>7.</p>  <p style="text-align: center;">Area =</p>	<p>8.</p>  <p style="text-align: center;">Area =</p>	<p>9.</p>  <p style="text-align: center;">Area =</p>

Answer Key:

1) Square + Triangle

$$\begin{aligned}\text{Area} &= (5 \times 5) + (1/2 \times (11-5) \times 5) \\ &= 25 + 1/2 \times 6 \times 5 \\ &= 25 + 15 \\ &= 40 \text{ cm}^2\end{aligned}$$

2) Rectangle + Triangle

$$\begin{aligned}\text{Area} &= (3 \times 10) + (1/2 \times 10 \times 5) \\ &= 30 + 25 \\ &= 55 \text{ cm}^2\end{aligned}$$

3) Rectangle + Triangle

$$\begin{aligned}\text{Area} &= (14 \times 10) + (1/2 \times 10 \times 6) \\ &= 140 + 30 \\ &= 170 \text{ cm}^2\end{aligned}$$

4) Area of shaded place

$$\begin{aligned}&= (20 \times 8) - (16 \times 2) \text{ cm}^2 \\ &= 160 - 32 \\ &= 128 \text{ cm}^2\end{aligned}$$

5) Triangle + semicircle $D^2 = 8^2 + 6^2 = D = 10 \text{ cm}$ $r = 5 \text{ cm}$

$$\begin{aligned}\text{Area} &= (1/2 \times 8 \times 6) + (1/2 \times 3.1416 \times 5 \times 5) \\ &= 24 + 39.27 \\ &= 63.27 \text{ cm}^2\end{aligned}$$

6) Area of semicircle

$$\begin{aligned}&= 1/2 \times 3.1416 \times 6 \times 6 \\ &= 56.55 \text{ cm}^2\end{aligned}$$

7) Full circle area

$$\begin{aligned}&= 3.1416 \times 4 \times 4 \\ &= 50.27 \text{ cm}^2\end{aligned}$$

8) $\text{Area} = \frac{3}{4} \times 3.1416 \times 6 \times 6 = 84.82 \text{ cm}^2$

9) $\frac{3}{4}$ of a circle + Rectangle = $(\frac{3}{4} \times 3.1456 \times 7 \times 7) + (14 \times 7) = 213.6 \text{ cm}^2$