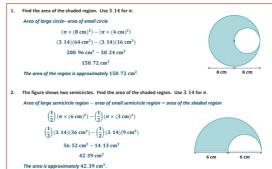
Problem Set Sample Solutions

Name: Date: G7 M3 L20



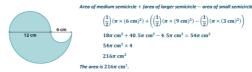
The figure shows a semicircle and a square. Find the area of the shaded region. Use 3.14 for π .



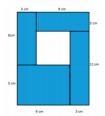
4. The figure shows two semicircles and a quarter of a circle. Find the area of the shaded region. Use 3.14 for π .



 Jillian is making a paper flower motif for an art project. The flower she is making has four petals; each petal is formed by three semicircles as shown below. What is the area of the paper flower? Provide your answer in term



6. The figure is formed by five rectangles. Find the area of the unshaded rectangular region.



 $Area\ of\ the\ whole\ rectangle-area\ of\ the\ sum\ of\ the\ shaded\ rectangles=area\ of\ the\ unshaded\ rectangular\ region$

$$(12 \text{ cm} \times 14 \text{ cm}) - \left(2(3 \text{ cm} \times 9 \text{ cm}) + (11 \text{ cm} \times 3 \text{ cm}) + (5 \text{ cm} \times 9 \text{ cm})\right)$$

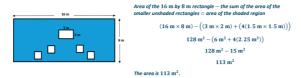
$$168 \text{ cm}^2 - (54 \text{ cm}^2 + 33 \text{ cm}^2 + 45 \text{ cm}^2)$$

$$168 \text{ cm}^2 - 132 \text{ cm}^2$$

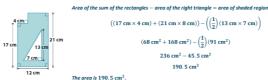
$$36 \text{ cm}^2$$

The area is 36 cm²

7. The smaller squares in the shaded region each have side lengths of 1.5 m. Find the area of the shaded region.



8. Find the area of the shaded region



9) The unshaded regions are quarter circles. Approximate the area of the shaded region.

