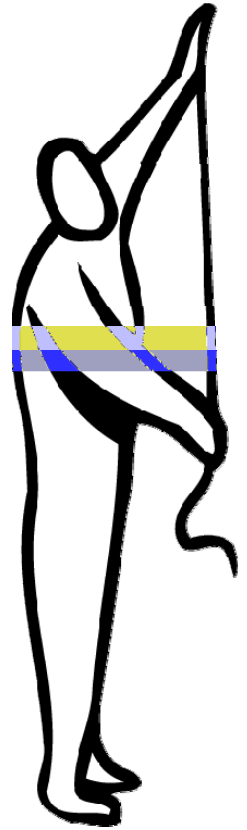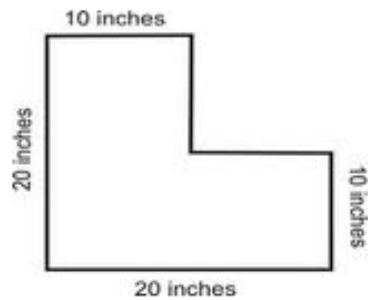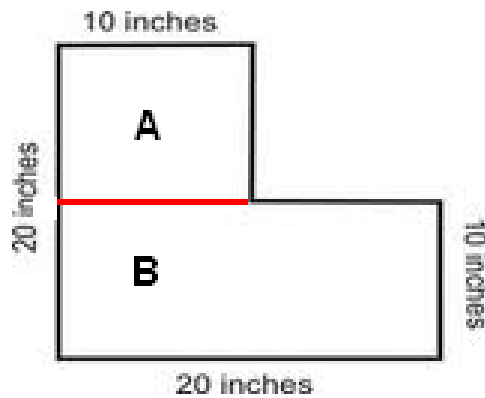Name _____   Date _____

Area of Composite Shapes Lesson

Problem: Find the area of the figure below.

Solution: The compound shape may be split into two rectangles A and B as shown in figure below:

You now have 2 rectangles. If you find the area of each rectangle and add them, you will have the total area of the figure.

   Area of A = (10x10) = 100 sq. inches

   Area of B = (20x 10) = 200 sq. inches

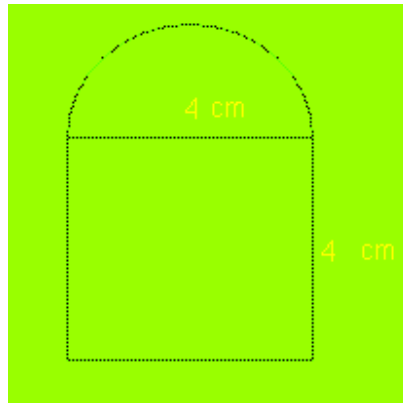   Total area of the compound shape = Area of square A + Area of square B = 300 sq. inches
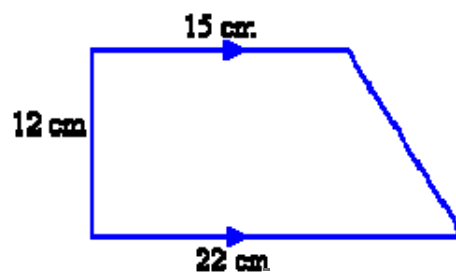
Area of Composite Shapes Advanced Guided Lesson

1. Find the area of the compound figure below

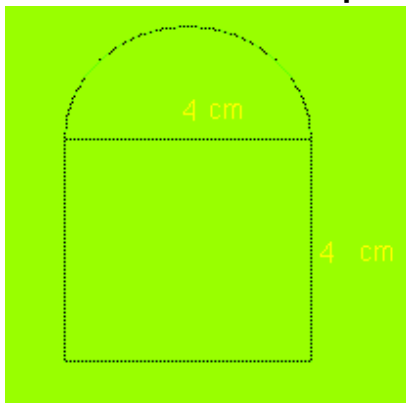**2. Find the area of the complex figure below.**

Area of Composite Shapes Advanced Guided Lesson Explanation

Answer 1: The figure above has two regular shapes: a square and a semi-circle. Find the area for each of those two shapes and add them to find the total area.

4 cm

4 cm

Area of square = 4x4 =16 square cm

Area of semi-circle = ½ x3.14 x 2 x2 = 6.28 square cm

Total Area = Area of square + Area of semi-circle

Total Area = 16 square cm + 6.28 square cm =   22.28 square cm

Answer 2: The complex shape can be split into a rectangle A (15x12) and a triangle B with a base of 7 and a height of 12 cm. Again, find the area of each regular shape and add them.

15 cm.

12 cm   12 cm

15 cm   7 cm
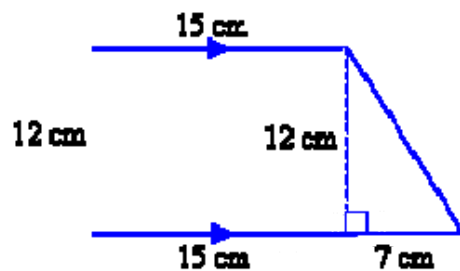
Area of rectangle = 180 square cm

Area of triangle = ½ x base x height = ½ x 7x 12= 42 square cm

Total area of the figure = Area of rectangle + Area of triangle

Total area of the figure = 180 square cm + 42 square cm

Total area of the figure = 222 square cm
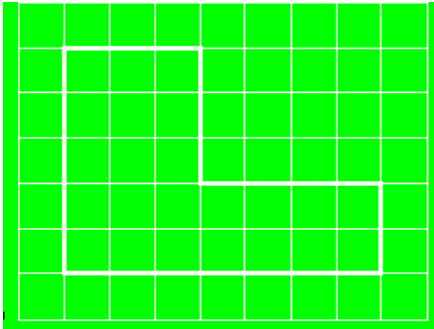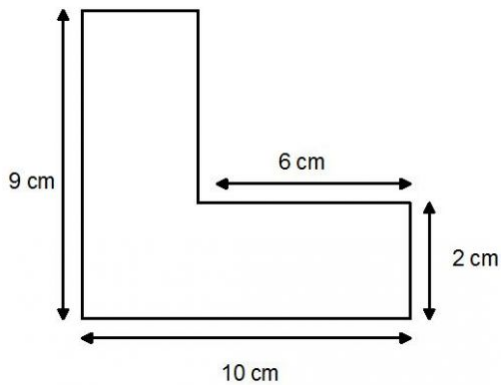
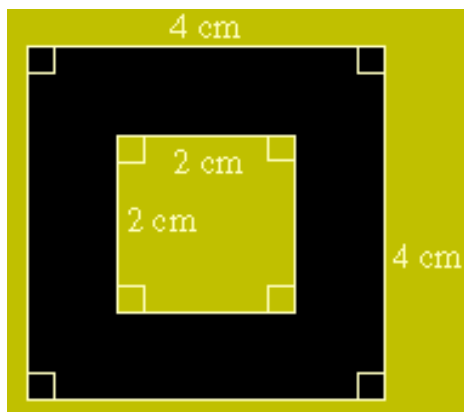# Area of Composite Shapes Practice Worksheet 1

1. Find the area of the shaded region of the figure below. Each small square is 1 cm x 1cm.

2. A piece of cardboard is cut in an L-shape as shown below. Find the total area of the cardboard.
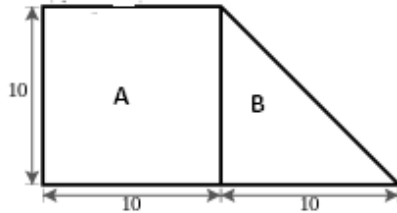

3. Find the area of the shaded region of the figure below.

4. **Find the area of the compound figure below.**

5. **Find the total area of the composite shape below.**