

## ANSWERS

# AREA OF COMPOUND SHAPES

**Instructions:** Solve each problem by dividing the compound shape into simpler figures such as rectangles, triangles, or circles. Calculate the area of each part, then add or subtract as needed to find the total or remaining area. Write only the final answer for each exercise.

| Problem  | Answer                 |
|--|------------------------|
| <input type="checkbox"/> A billboard is shaped like a rectangle (12 ft by 6 ft) with a triangular top (base 12 ft, height 4 ft). What is the total area of the billboard?            | 96 ft <sup>2</sup>     |
| <input type="checkbox"/> A conference table is shaped like a rectangle (8 ft by 4 ft) with two semicircular ends of radius 2 ft. What is the total area of the table?                | 41.14 ft <sup>2</sup>  |
| <input type="checkbox"/> A garden bed is shaped like a trapezoid with parallel sides measuring 10 m and 6 m and a height of 4 m. What is the total area of the garden bed?           | 32 m <sup>2</sup>      |
| <input type="checkbox"/> A house has a rectangular main floor (15 m by 10 m) with a rectangular porch (5 m by 2 m) attached. What is the total area of the house and porch?          | 160 m <sup>2</sup>     |
| <input type="checkbox"/> A cinema screen is shaped like a rectangle (20 ft by 12 ft) with a semicircular arch on top with a diameter of 20 ft. What is the total area of the screen? | 288.54 ft <sup>2</sup> |

How Did You Do? 😊 😐 😞