

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 museum floor is shaped like an "L." The vertical section is 18 m by 12 m, and the horizontal section is 10 m by 8 m. What is the total area of the floor?	276 m ²
<input type="checkbox"/> A park has a circular flower bed with a radius of 6 m in the middle of a rectangular grassy area measuring 25 m by 20 m. What is the remaining grassy area?	1234.16 m ²
<input type="checkbox"/> A warehouse floor is shaped like a trapezoid with parallel sides measuring 18 m and 12 m and a height of 10 m. What is the area of the warehouse floor?	150 m ²
<input type="checkbox"/> A pool is rectangular, measuring 15 m by 10 m, with a semicircular shallow end with a diameter of 10 m. What is the total area of the pool?	178.54 m ²
<input type="checkbox"/> A signboard is shaped like a rectangle (12 ft by 8 ft) with a triangular top (base 12 ft, height 6 ft). What is the total area of the signboard?	108 ft ²

How Did You Do? 😊 😐 😞