

Area of Compound Shapes - Practice Worksheet

Name: _____ Date: _____

Instructions: Find the area of each compound shape. Split each figure into simple shapes, calculate each part, then add the areas together. Show your working for full marks.

1. An L-shape is made of two rectangles. Rectangle A is 6 cm wide and 2 cm tall. Rectangle B is 2 cm wide and 4 cm tall. What is the total area?

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2. A compound shape is made of a 5 m x 4 m rectangle with a 2 m x 2 m square added on top. What is the total area?

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3. A T-shape has a top bar that is 8 cm wide and 2 cm tall, and a stem that is 2 cm wide and 5 cm tall. What is the total area?

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4. An L-shape has overall dimensions 10 ft x 8 ft. A 6 ft x 5 ft rectangle is cut from the top-right corner. What is the remaining area?

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5. A compound shape is formed by placing a right triangle (base 4 cm, height 3 cm) on top of a 4 cm x 6 cm rectangle. What is the total area?

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6. A plus-sign shape has a vertical rectangle 2 m x 8 m and a horizontal rectangle 6 m x 2 m crossing through the middle. What is the total area (do not double-count the overlap)?

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7. A compound shape is a 10 cm x 10 cm square with a semicircle of diameter 4 cm removed from one side. What is the remaining area? (Use $\pi = 3.14$)

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8. A composite figure has a 12 in x 5 in rectangle joined to a right triangle with base 5 in and height 4 in. What is the total area?

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9. A compound shape is made of a large rectangle 9 m x 6 m with a 3 m x 3 m square notch cut from one corner. What is the area?

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10. A compound figure consists of a rectangle 8 cm x 5 cm, a triangle with base 8 cm and height 3 cm, and a semicircle with diameter 8 cm placed on top of the triangle. What is the total area? (Use $\pi = 3.14$)

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Answer Key

1. 20 cm²

2. 24 m²

3. 26 cm²

4. 50 ft²
5. 30 cm²
6. 24 m²
7. 93.72 cm²
8. 70 in²
9. 45 m²
10. 102.12 cm²