

Area of a Trapezoid - Practice Worksheet

Name: _____ Date: _____

Instructions: Find the area of each trapezoid using the formula $A = \frac{1}{2} \times (b_1 + b_2) \times h$. Show your working. Round decimal answers to 2 decimal places where needed.

1. $b_1 = 4$ cm, $b_2 = 6$ cm, $h = 3$ cm. Find the area.

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2. $b_1 = 5$ in, $b_2 = 9$ in, $h = 4$ in. Find the area.

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3. $b_1 = 8$ m, $b_2 = 12$ m, $h = 5$ m. Find the area.

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4. $b_1 = 7$ ft, $b_2 = 11$ ft, $h = 6$ ft. Find the area.

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5. $b_1 = 3.5$ cm, $b_2 = 6.5$ cm, $h = 4$ cm. Find the area.

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6. $b_1 = 10$ yd, $b_2 = 14$ yd, $h = 7$ yd. Find the area.

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7. A trapezoid has area 40 m^2 , $b_1 = 6$ m, and $h = 5$ m. Find b_2 .

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8. $b_1 = 9.2$ cm, $b_2 = 13.8$ cm, $h = 6$ cm. Find the area.

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9. A trapezoid has area 72 ft^2 and $b_1 + b_2 = 18$ ft. Find the height.

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10. $b_1 = 2x$, $b_2 = 4x$, $h = x$, and the area = 54 cm^2 . Find x .

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Answer Key

1. 15 cm^2

2. 28 in^2

3. 50 m^2

4. 54 ft^2

5. 20 cm^2

6. 84 yd^2

7. 10 m

8. 69 cm^2

9. 8 ft

10. $x = 3$ cm