

Area of a Triangle - Practice Worksheet

Name: _____ Date: _____

Instructions: Find the area of each triangle. Show your working. Use $A = (1/2) * \text{base} * \text{height}$ unless told otherwise. Round decimal answers to 2 decimal places where needed.

1. A triangle has base = 6 cm and height = 4 cm. Find its area.

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2. A triangle has base = 10 m and height = 7 m. Find its area.

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3. A right triangle has legs of length 9 in and 12 in. Find its area. (Hint: the legs are the base and height.)

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4. A triangle has base = 15 ft and height = 8 ft. Find its area.

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5. A triangle has base = 7.4 cm and height = 5 cm. Find its area.

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6. A triangle has base = 13 m and height = 6.5 m. Find its area.

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7. The area of a triangle is 36 cm^2 and its height is 9 cm. Find the base.

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8. A triangle has sides $a = 5$, $b = 6$, $c = 7$. Use Heron's formula to find its area. ($s = (5+6+7)/2 = 9$)

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9. A triangle has vertices at $A(0, 0)$, $B(6, 0)$, and $C(2, 5)$ on a coordinate grid. Find its area using the coordinate formula.

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10. A triangular garden has sides of 13 m, 14 m, and 15 m. Use Heron's formula to find its area. ($s = 21$)

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Answer Key

1. 12 cm^2

2. 35 m^2

3. 54 in^2

4. 60 ft^2

5. 18.5 cm^2

6. 42.25 m^2

7. 8 cm

8. $\sqrt{9 \cdot 4 \cdot 3 \cdot 2} = \sqrt{216} = 6 \cdot \sqrt{6} \approx 14.70$ square units

9. 15 square units

10. $\sqrt{21 \cdot 8 \cdot 7 \cdot 6} = \sqrt{7056} = 84 \text{ m}^2$

