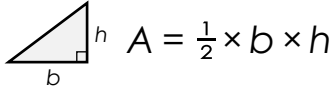


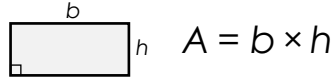
Name: _____

Area of a Trapezoid Challenges

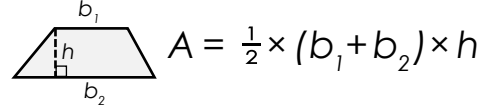
Formula for triangle:



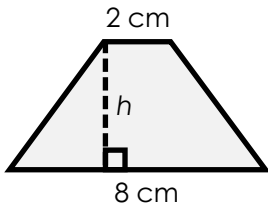
Formula for rectangle:



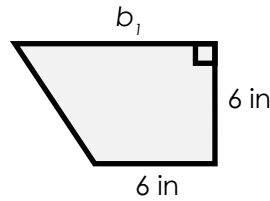
Formula for trapezoid:



a. Find the height.



b. Find the length of base₁.



The area of this

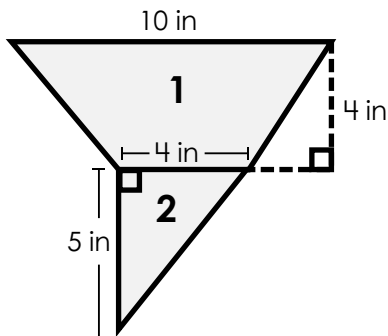


Preview

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area = _____ area = _____ area = _____



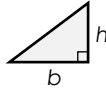
f. Calculate the area of the shape.

area = _____

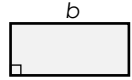
ANSWER KEY

Area of a Trapezoid Challenges

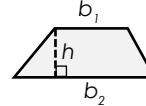
Formula for triangle:


$$A = \frac{1}{2} \times b \times h$$

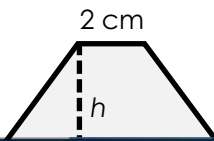
Formula for rectangle:


$$A = b \times h$$

Formula for trapezoid:


$$A = \frac{1}{2} \times (b_1 + b_2) \times h$$

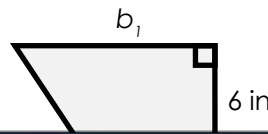
a. Find the height.



$$20 = \frac{1}{2} \times (2 + 8) \times h$$

$$20 = \frac{1}{2} \times (10) \times h$$

b. Find the length of base₁.



$$48 = \frac{1}{2} \times (b_1 + 6) \times 6$$

$$48 = (b_1 + 6) \times \frac{6}{2}$$

Preview

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