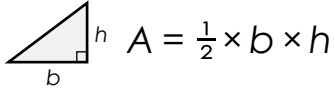


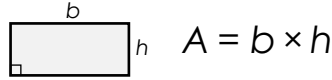
Name: _____

Area of a Trapezoid Challenges

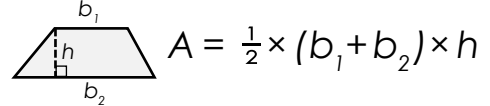
Formula for triangle:



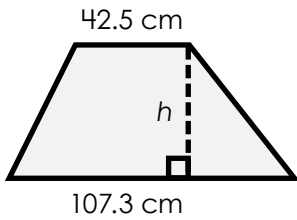
Formula for rectangle:



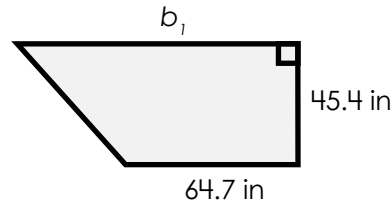
Formula for trapezoid:



a. Find the height.



b. Find the length of base₁.

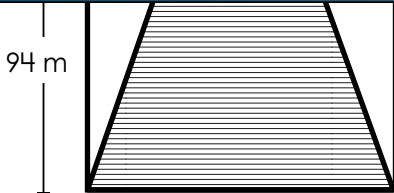


The area of this

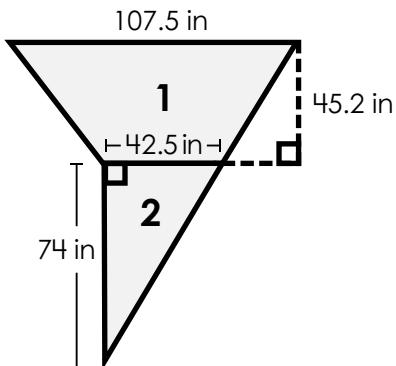


Preview

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area = _____ area = _____ area = _____



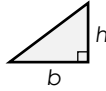
f. Calculate the area of the shape.

area = _____


ANSWER KEY

Area of a Trapezoid Challenges

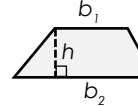
Formula for triangle:


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

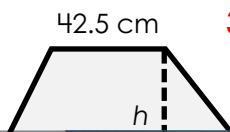
Formula for rectangle:


$$A = b \times h$$

Formula for trapezoid:


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

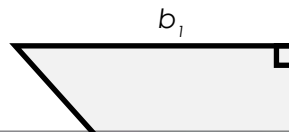
a. Find the height.



$$3,745 = \frac{1}{2} \times (42.5 + 107.3) \times h$$

$$3,745 = \frac{1}{2} \times (149.8) \times h$$

b. Find the length of base₁.



$$3,859 = \frac{1}{2} \times (b_1 + 64.7) \times 45.4$$

$$3,859 = (b_1 + 64.7) \times \frac{45.4}{2}$$

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