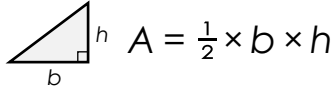


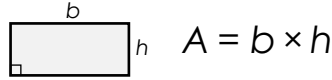
Name: _____

Area of a Trapezoid Challenges

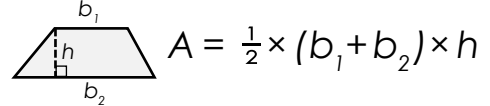
Formula for triangle:



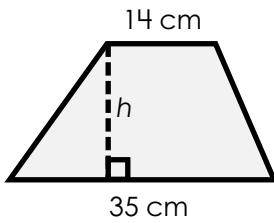
Formula for rectangle:



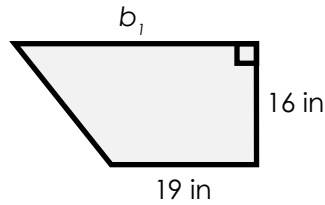
Formula for trapezoid:



a. Find the height.



b. Find the length of base₁.

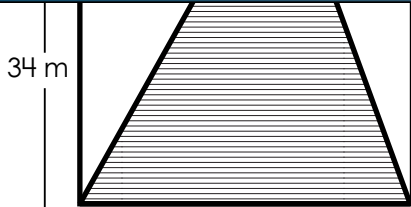


The area of this

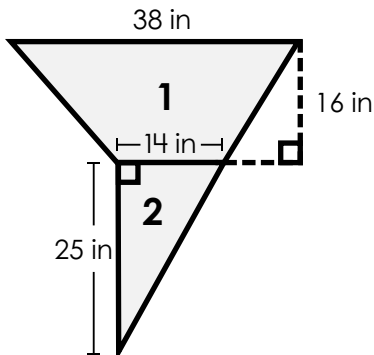


Preview

Please log in to download the printable version of this worksheet.



area = _____ area = _____ area = _____



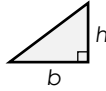
f. Calculate the area of the shape.

area = _____


ANSWER KEY

Area of a Trapezoid Challenges

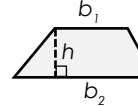
Formula for triangle:


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

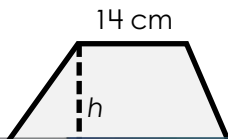
Formula for rectangle:


$$A = b \times h$$

Formula for trapezoid:


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

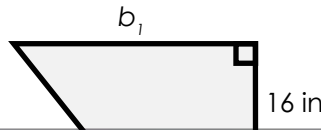
a. Find the height.



$$882 = \frac{1}{2} \times (14 + 35) \times h$$

$$882 = \frac{1}{2} \times (49) \times h$$

b. Find the length of base₁.



$$816 = \frac{1}{2} \times (b_1 + 19) \times 16$$

$$816 = (b_1 + 19) \times \frac{16}{2}$$

Preview

Please log in to download
the printable version of this worksheet.

