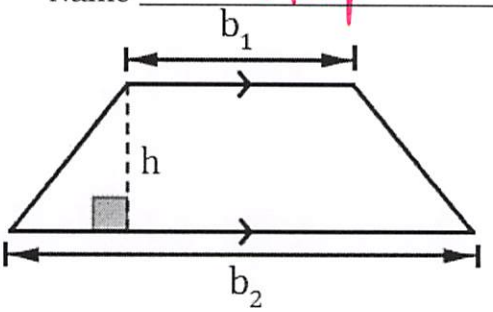
Area of a Trapezoid Homework

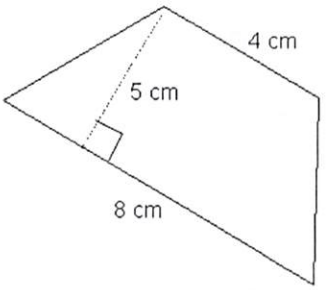
Name Key

Area of a Trapezoid Formula

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

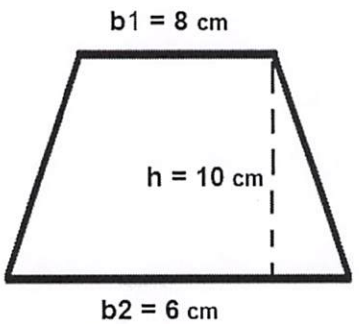


Find the Area of the Trapezoid



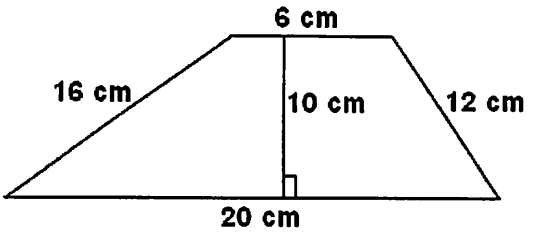
Formula and List of Values:	Substitution and Solve:	Final Labeled Answer:
$A = ?$ $b_1 = 4\text{ cm}$ $b_2 = 8\text{ cm}$ $h = 5\text{ cm}$	$A = \frac{h(b_1 + b_2)}{2}$ $A = \frac{5 \cdot (4+8)}{2}$ $A = \frac{5 \cdot 12}{2} = 30$	30 cm^2

Find the Area of the Trapezoid



Formula and List of Values:	Substitution and Solve:	Final Labeled Answer:

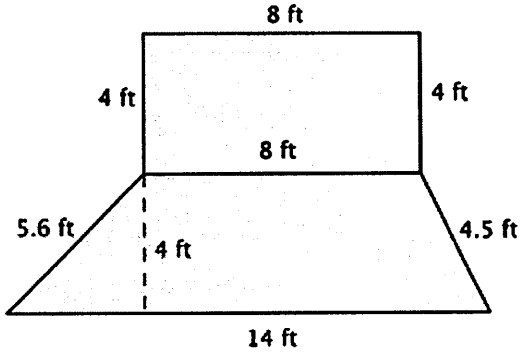
Find the Area of the Trapezoid



Formula and List of Values:	Substitution and Solve:	Final Labeled Answer:

Find the Area of the Shape

Hint: Add the Area of the Rectangle and Trapezoid together



Formula and List of Values:	Substitution and Solve:	Final Labeled Answer:

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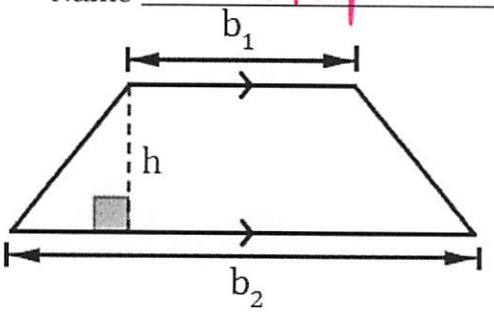
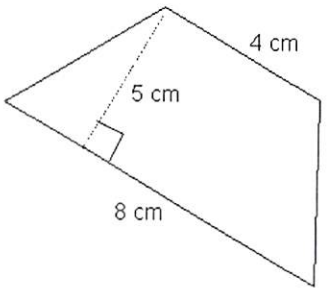
Area of a Trapezoid Formula

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

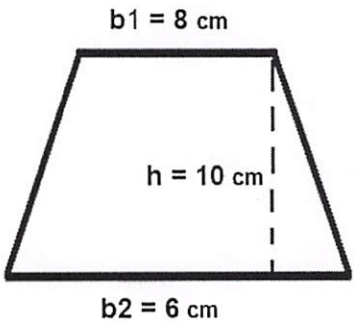


Find the Area of the Trapezoid



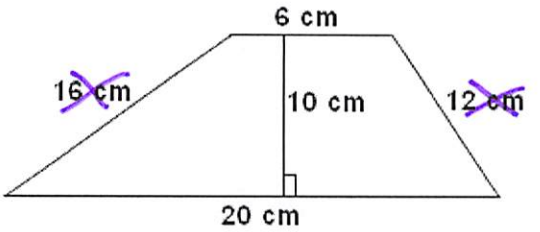
Formula and List of Values:	Substitution and Solve:	Final Labeled Answer:
$A = ?$ $b_1 = 4$ cm $b_2 = 8$ cm $h = 5$ cm	$A = \frac{h(b_1 + b_2)}{2}$ $A = \frac{5 \cdot (4+8)}{2}$ $A = \frac{5 \cdot 12}{2} = 30$	30 cm^2

Find the Area of the Trapezoid



Formula and List of Values:	Substitution and Solve:	Final Labeled Answer:
$A = ?$ $b_1 = 8$ cm $b_2 = 6$ cm $h = 10$ cm	$A = \frac{h(b_1 + b_2)}{2}$ $A = \frac{10 \cdot (8+6)}{2}$ $A = \frac{10 \cdot 14}{2} = 70$	70 cm^2

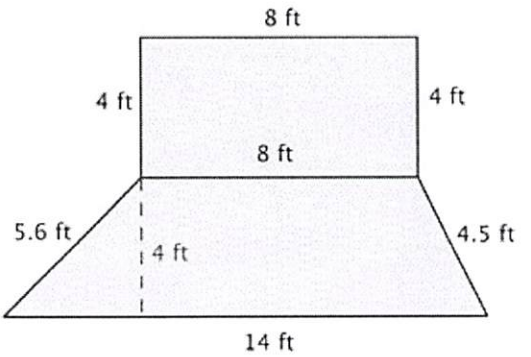
Find the Area of the Trapezoid



Formula and List of Values:	Substitution and Solve:	Final Labeled Answer:
$A = ?$ $b_1 = 6\text{ cm}$ $b_2 = 20\text{ cm}$ $h = 10\text{ cm}$	$A = \frac{h(b_1 + b_2)}{2}$ $A = \frac{10(6+20)}{2}$ $A = \frac{10 \cdot 26}{2} = 130$	$130\ \text{cm}^2$

Find the Area of the Shape

Hint: Add the Area of the Rectangle and Trapezoid together



Formula and List of Values:	Substitution and Solve:	Final Labeled Answer:
Rectangle $A = ?$ $b = 8\text{ ft}$ $h = 4\text{ ft}$ Trapezoid $A = ?$ $b_1 = 8\text{ ft}$ $b_2 = 14\text{ ft}$ $h = 4\text{ ft}$	$A = b \cdot h$ $A = 8 \cdot 4$ $A = 32$ $A = \frac{h(b_1 + b_2)}{2}$ $A = \frac{4(8+14)}{2}$ $A = \frac{4 \cdot 22}{2} = 44$	$32\ \text{ft}^2$ $+\ 44\ \text{ft}^2$ $76\ \text{ft}^2$