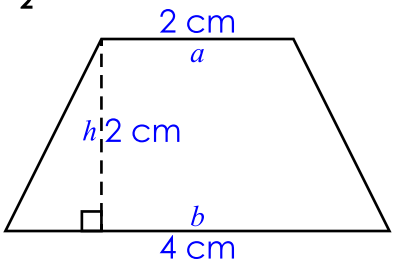
Name: _____

Area of a Trapezoid

The formula for finding the area of a trapezoid is **Area = $\frac{1}{2}$ × height × (base a + base b)**.
This is written as **A = $\frac{1}{2}h(a + b)$**.

Example:



A = $\frac{1}{2}h(a + b)$

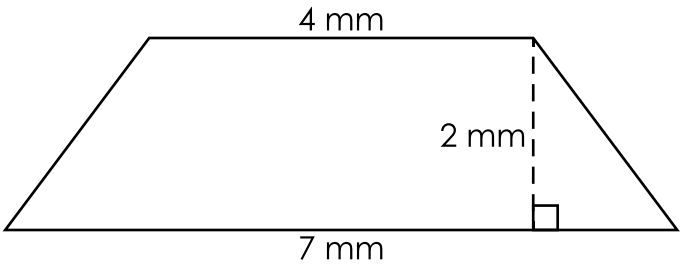
A = $\frac{1}{2}$ × 2 cm(2 cm + 4 cm)

A = $\frac{1}{2}$ × 2 cm(6 cm)

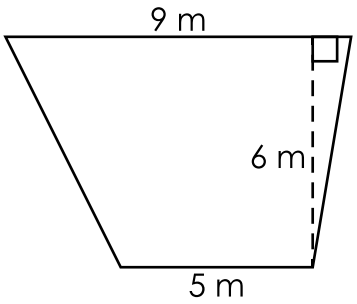
A = 1 cm(6 cm)

A = 6 cm²

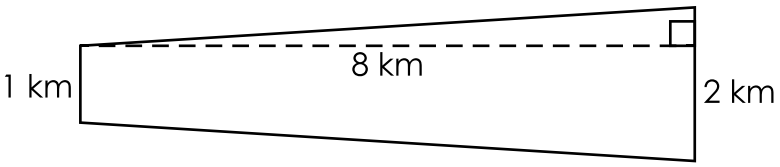
Find the areas of the trapezoids.



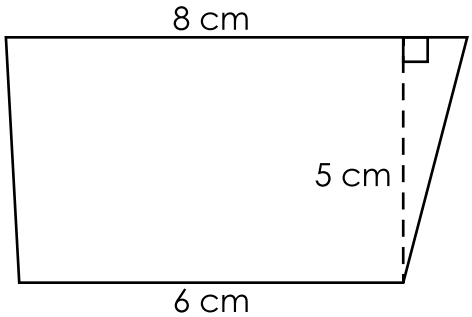
A = _____



A = _____



A = _____



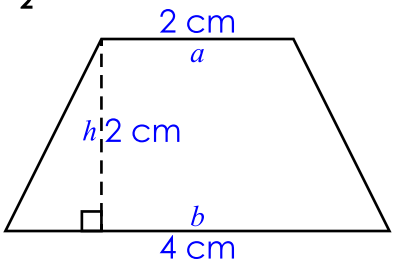
A = _____

ANSWER KEY

Area of a Trapezoid

The formula for finding the area of a trapezoid is **Area = $\frac{1}{2}$ × height × (base a + base b)**.
This is written as **A = $\frac{1}{2}h(a + b)$**.

Example:



$A = \frac{1}{2}h(a + b)$

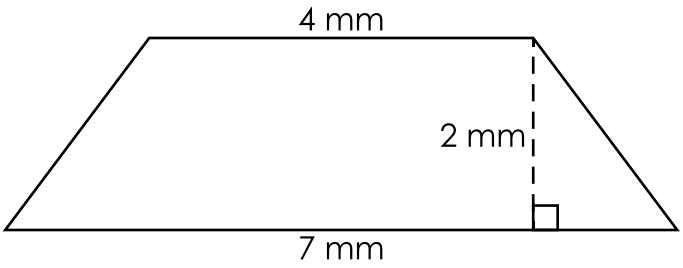
$A = \frac{1}{2} \times 2\text{ cm}(2\text{ cm} + 4\text{ cm})$

$A = \frac{1}{2} \times 2\text{ cm}(6\text{ cm})$

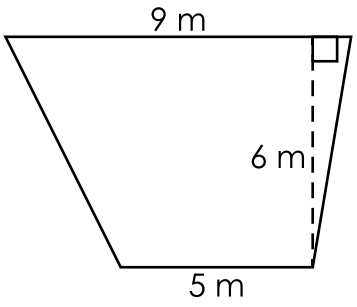
$A = 1\text{ cm}(6\text{ cm})$

$A = 6\text{ cm}^2$

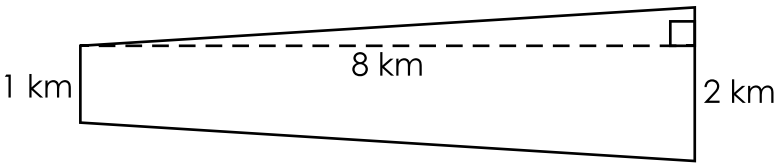
Find the areas of the trapezoids.



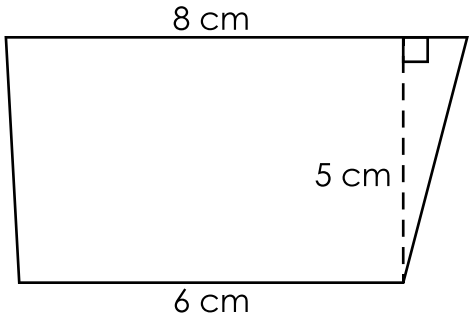
A = **11 mm²**



A = **42 m²**



A = **12 km²**



A = **35 cm²**