

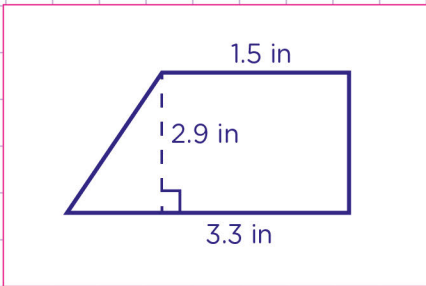
Name: Class:

Area of parallelograms and trapezoids

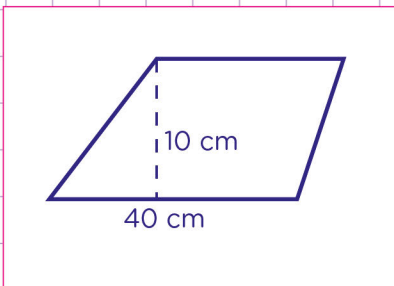
Area of parallelogram = Base x Height

Area of trapezoid = $\frac{1}{2} (a + b) \times \text{height}$

1. Find the area of the trapezoid.



2. Find the area of the parallelogram.



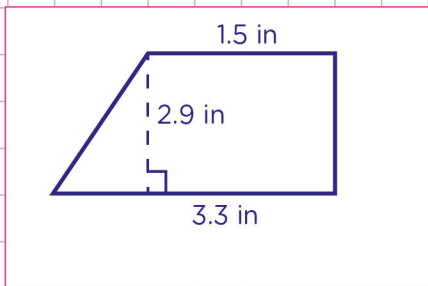
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Area of parallelograms and trapezoids

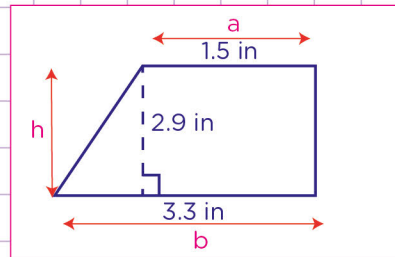
Area of parallelogram = Base x Height

Area of trapezoid = $\frac{1}{2} (a + b) \times \text{height}$

1. Find the area of the trapezoid.



Following the formula of trapezoid above, we'll first of all find a, b, and height (h) of the trapezoid;



a = 1.5 in
b = 3.3 in
h = 2.9 in

Secondly, let's substitute these numbers in the formula.

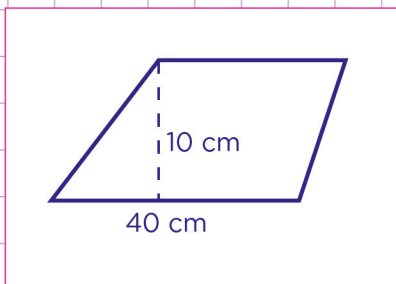
$$\frac{1}{2} ((1.5 \text{ in} + 3.3 \text{ in}) \times 2.9 \text{ in})$$

$$\frac{1}{2} (4.8 \text{ in} \times 2.9 \text{ in})$$

$$\frac{13.92}{2} = 6.96 \text{ square inches}$$

The area is 6.96 square inches.

2. Find the area of the parallelogram.



Area of parallelogram = Base x Height

Base = 40 cm

Height = 10 cm

Substitute these numbers in the formula.

$$\text{Area of parallelogram} = 40 \text{ cm} \times 10 \text{ cm}$$

$$= 400 \text{ square centimeters}$$

Therefore, the area is 400 square centimeters

