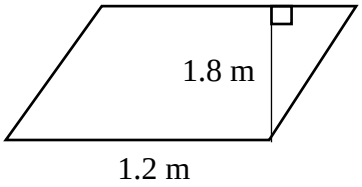
Area of Parallelograms

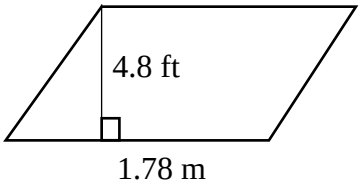
1. Determine the area of the parallelogram shown.



$$A_{parallelogram} = bh$$
$$= 1.2\ m \times 1.8\ m$$
$$= 2.2\ m^2$$

The parallelogram has an area of approximately $2.2\ m^2$.

2. Determine the area of the parallelogram shown, to the nearest tenth of a square metre.



Step 1: Change the measurement that is in feet to metres.

$$\frac{y}{4.8\ ft} = \frac{0.305\ m}{1\ ft}$$

$$\frac{y}{\cancel{4.8\ ft}} \times \cancel{4.8\ ft} = \frac{0.305\ m}{1\ \cancel{ft}} \times 4.8\ \cancel{ft}$$

$$y = \frac{0.305\ m \times 4.8}{1}$$

$$y = 1.5\,m$$

Step 2: Calculate the area of the parallelogram, using 1.78 m as the base and 1.5 m as the height.

$$A_{parallelogram} = bh$$
$$= 1.78\ m \times 1.5\ m$$
$$= 2.7\ m^2$$

The parallelogram's area is approximately 2.7 m^2.