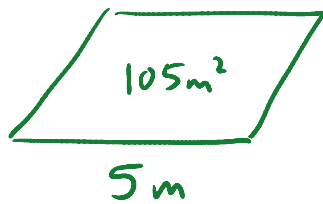


1. Find the perimeter of a rectangle with length 18 feet and width 10 feet.

$$P = 2l + 2w = 2(18) + 2(10) = 36 + 20 = \boxed{56 \text{ ft}}$$

2. Find the height of a parallelogram with a base of 5 meters and an area of 105 square meters.



$$A = bh$$

$$105 = 5h$$

$$h = \frac{105}{5} = \boxed{21 \text{ m}}$$

3. Suppose a room in a condo is 12 ft long, 10 ft wide, and 8 ft high. What is the volume of the room?

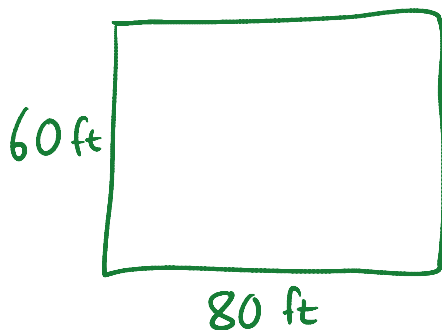
$$V = lwh$$

$$= (12)(10)(8)$$

$$= \boxed{960 \text{ ft}^3}$$

4. A fence is to be built around a yard that is 60 feet long by 80 feet wide. A contractor indicates he will charge \$35 per foot to install the fence. How much will it cost to install the fence?

(Find perimeter, multiply it by \$35/ft.)



$$P = 2l + 2w$$

$$= 2(80) + 2(60)$$

$$= 160 + 120$$

$$= 280$$

$$\text{Cost} = (280 \text{ ft})(\$35/\text{ft})$$

$$= \boxed{\$9800}$$

It will cost \$9800 to install the fence.

5. Suppose you're carpeting the room shown below. How many square meters of carpeting will you need to cover the room?

