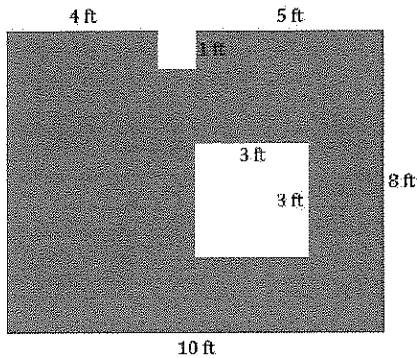


## G4-M7-Lesson 15

1. Find the area of the figure that is shaded.



$$3 \text{ ft} \times 3 \text{ ft} = 9 \text{ square ft}$$

$$1 \text{ ft} \times 1 \text{ ft} = 1 \text{ square ft}$$

$$9 \text{ square ft} + 1 \text{ square ft} = 10 \text{ square ft}$$

$$10 \text{ ft} \times 8 \text{ ft} = 80 \text{ square ft}$$

$$80 \text{ square ft} - 10 \text{ square ft} = 70 \text{ square ft}$$

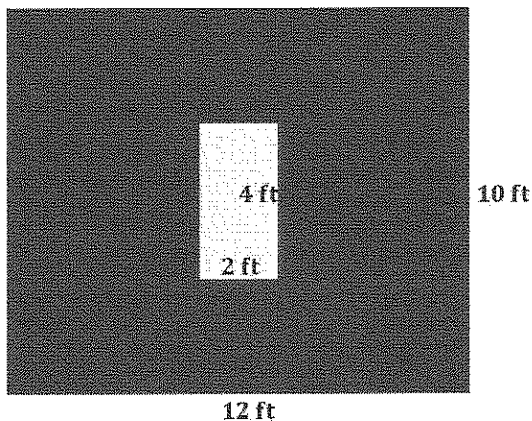
I find the area of the white portion inside the shaded figure and the area of the cutout.

I think of the shaded area as a rectangle without the cutouts and find its area.

I subtract the area of the cutouts from the area of the larger rectangle to find the area of the figure that is shaded.

*The area of the shaded figure is 70 square feet.*

2. A wall is 10 feet tall and 12 feet wide. A window with a width of 2 feet and a height of 4 feet is in the center of the wall. Find the area of the wall that can be painted.



$$12 \text{ ft} \times 10 \text{ ft} = 120 \text{ square ft}$$

$$2 \text{ ft} \times 4 \text{ ft} = 8 \text{ square ft}$$

$$120 \text{ square ft} - 8 \text{ square ft} = 112 \text{ square ft}$$

*The area of the wall that can be painted is 112 square feet.*