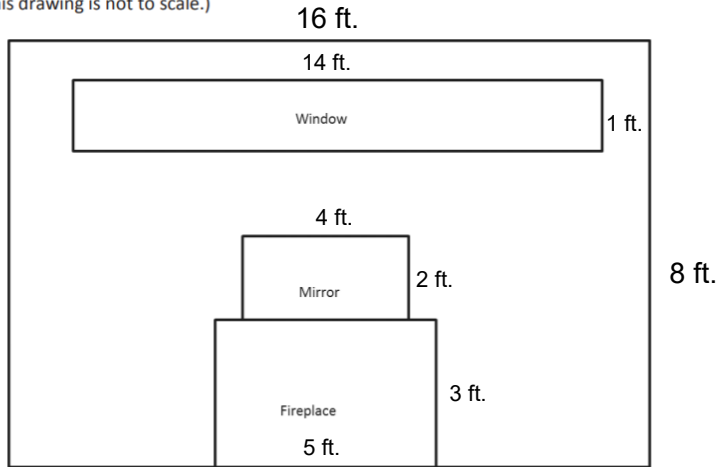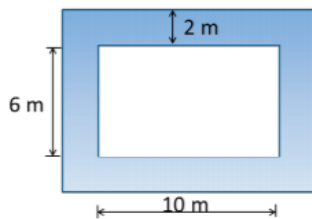Name _____   Date _____

Problem Set

1. Below is a drawing of a wall that is to be covered with either wallpaper or paint. The wall is 8 ft. high and 16 ft. wide. The window, mirror, and fireplace are not to be painted or papered. The window measures 14 ft. wide and 1 ft. high. The fireplace is 5 ft. wide and 3 ft. high, while the mirror above the fireplace is 4 ft. wide and 2 ft. high. (Note: this drawing is not to scale.)

16 ft.

14 ft.

Window   1 ft.

4 ft.

Mirror   2 ft.   8 ft.

3 ft.

Fireplace

5 ft.

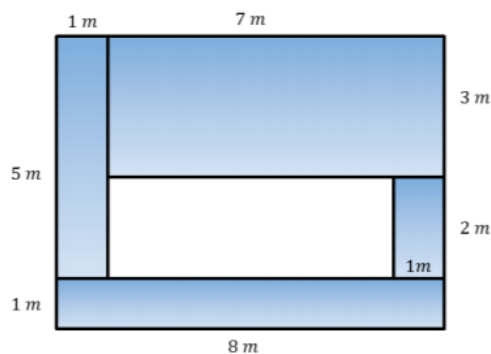**How many square feet of wallpaper are needed to cover the wall?**

2. A classroom has a length of 30 ft. and a width of 20 ft. The flooring is to be replaced by tiles. If each tile has a length of 3 ft. and a width of 2 ft. , how many tiles are needed to cover the classroom floor?

3. A rectangular flower bed measures 10 m by 6 m. It has a path 2 m wide around it. Find the area of the path.

2 m

6 m

10 m

4. A diagram of Tracy's deck is shown below, shaded blue. He wants to cover the missing portion of his deck with soil in order to grow a garden.

Find the area of the missing portion of the deck.

1 m   7 m

3 m

5 m

2 m

1m

1 m

8 m

Show all work. You may use a calculator