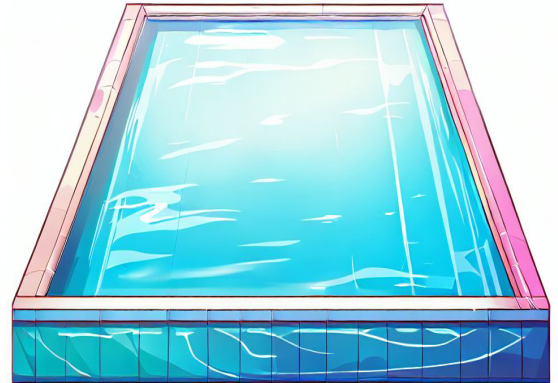# Volume of Rectangular Prisms Word Problems

1.) What is the volume of a rectangular refrigerator with a height of 6.5 feet, a length of 2.5 feet, and a width of 4 feet?

2.) A storage cabinet is 60 inches tall, 75 inches wide, and 20 inches deep. What is the volume of the cabinet?

3.) A rectangular swimming pool is 8 feet deep, 10 feet wide, and 20 feet long. How many cubic feet of water would be needed to fill three quarters of the swimming pool?

4.) In an office, there is a file cabinet with two drawers. The top drawer is 40 cm wide, 30 cm deep, and 20 cm tall. The bottom drawer is 40 cm wide, 30 cm deep, and 28 cm tall. What is the total volume of space for storage inside of the file cabinet?

ANSWER KEY

1.) The refrigerator has a volume of 65 cubic feet.
2.) The cabinet has a volume of 90,000 cubic inches.
3.) 1,200 cubic feet of water would be needed.
4.) The file cabinet has a total of 57,600 cubic centimeters of space.