Name _____   Date _____

Find The Volume Of A Right Rectangular Prism - Guided Lesson Explanation

Explanation#1

The formula of Surface Area of a Rectangular Solid is:

Surface Area of a Rectangular Solid = Width x Height

Area the rectangle carpet = 14 x 8 = 112

Since the units are feet times feet, the units are squared.

Area the rectangle carpet = 112 Feet^2

Explanation#2

Step 1) The formula of the area of a triangle is:

Area of Triangle = ½ x Base x Height

Step 2) The area of the triangle house = ½ x Base x Height

Area of the triangle house = ½ x 12 x 24 (units are meters times meters)

Area of the triangle house = 144 meters^2

Explanation#3

Step 1) The volume V of a rectangular prism is the product of the length, width, and height.

The formula of volume of rectangle is:

V = Length x Width x Height

Step 2) V = Length x width x height

V = 30 x 60 x 80 = 144,000

Units are cubed because it is centimeters x centimeters x centimeters

V = 144,000 centimeters^3