Volume Formula

In this video, we will find the volumes of two rectangular prisms using the volume formula. The formula for volume of a rectangular prism is Volume = Length x Width x Height. We write this as V = L x W x H. Let's get started.

Find the volume of the rectangular prism below.

The prism has a length of 2 inches, a width of 6 inches, and a height of 5 inches. We write the formula, V = L x W x H, and now we substitute the dimensions into the formula: V = 2 x 6 x 5. Now we solve. 2 x 6 = 12. 12 x 5 = 60. The volume of the rectangular prism is 60 cubic inches.

Find the volume of the rectangular prism below.

This prism has a length of 7 feet, a width of 3 feet, and a height of 4 feet. We write the formula, and now we substitute in the dimensions. We solve. 7 x 3 = 21. 21 x 4 = 84. This rectangular prism has a volume of 84 cubic feet.