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Class:



## mathskills4kids

Name: Class:
Volume of cubes and rectangular prisms: word problems
Mary's lunch box is 24cm long, 15 cm wide and 4 cm thick. What is the volume of the lunch box ?
Formula for the volume of a rectangular prism is:  Volume = length x width x height.  Find the volume of the lunch box by substituting the values,  Length = 24 cm, width = 15 cm, height = 4 cm into the formula  Volume = 24 x 15 x 4 = 1, 440 cubic centimeters
So, the volume of the lunch box is 1,440 cubic centimeters.
Lucy and her parents went to the beach. Lucy built a sand castle shaped like a cube. Lucy sand castle look like a square with a side of 12 meters. What is the volume of lucy's sand castle?
Formula for the volume of a cube is  Volume = (length) <sup>3</sup>
Now, find the volume of the sand castle by substituting the value of length = 12 meters, into the formula  Volume = 12 x 12 x 12 = 1, 728 cubic meters
So, the volume of the sand castle is 1,728 cubic meters.
Mr. James needs a new gas cooker for his baking classes. His wife bought him a brand new beautiful gas cooker as a present. The gas cooker is 3 feet long, 2 feet wide, and 3 feet tall What is the volume of the gass cooker?
Formula for the volume of a rectangular prism is  Volume = length x width x height.  Now, find the volume of the gas cooker by substituting the values,  Length = 3 feet, width = 2 feet, height = 3 feet into the formula  Volume = 3 x 2 x 3 = 18 cubic feet
So, the volume of the gas cooker is 18 cubic feet