Name: .... Class: ....
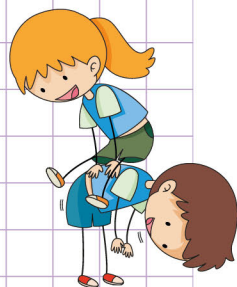
Volume of cubes and rectangular prisms: word problems

Ali's lunch box is 24cm long, 15 cm wide and 4 cm thick. What is the volume of the lunch box ?

Lucy and her parents went to the beach. Lucy built a sand castle shaped like a cube. Lucy's sand castle had a length , width, and height of 12 cm. What is the volume of lucy's sand castle ?

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 ?

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Volume of cubes and rectangular prisms: word problems

Ali'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:
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's sand castle had a length , width, and height of 12 cm. What is the volume of lucy's sand castle ?

Formula for the volume of a cube is
Volume = (length)³
Now, find the volume of the sand castle by substituting the value of length = 12 centimeters,
into the formula
Volume = 12 x 12 x 12 = 1, 728 cubic centimeters

So, the volume of the sand castle is 1,728 cubic centimeters.

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