Hey Kids! Time for a super fun Math lesson, courtesy of Math Madness!

## - VOLLME

The volume of an object is the amount of space that the object occupies. It is expresed in terms of cubic units of distance.

In order to calculate the volume of a rectangular prism, multiply the length by the height by the base.

For example, for a box that is 3 m high by $2 M$ wide by $2 M$ deep:
Volume $=3 m \times 2 m \times 2 m=12 m^{3}$
Another way to think of it is the area of the base times the height. For example, say we want to flood a 200 square foot bathroom with 1.5 feet of water. We will need 300 cubic feet of water to accomplish this task!

Volume $=200 \mathrm{ft}^{2} \times 1.5 \mathrm{ft}=300 \mathrm{ft}^{3}$

## - TRY IT!

Calculate the volume of the rectangular prisms described below. Be sure to include the units!

## Dimensions

$5 \mathrm{~m} \times 5 \mathrm{~m} \times 5 \mathrm{~m}$
20 mx 3 mx 6 m
$13 \mathrm{ft} \times 25 \mathrm{ft} \times 22 \mathrm{ft}$
$22 \mathrm{mi} \times 31 \mathrm{mi} \times 2 \mathrm{mi}$
1 km x 42 km x 7 km
7 in $x 12$ in $x 11$ in
$130 \mathrm{~mm} \times 180 \mathrm{~mm} \times 24 \mathrm{~mm}$
Volume
$\qquad$
$\qquad$
$\qquad$
$\qquad$
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