

MEASUREMENT & GEOMETRY

Area, Perimeter, and Volume

Perimeter

Perimeter is the path or distance around any plane figure.

It is a measure of length. We use units like centimeters, inches, and feet to measure perimeter.

Perimeter is used in many real-life situations where you need to measure the boundary or outline of a space. Here are some examples:

Running a border around a garden Fencing a yard Putting up a fence

Area

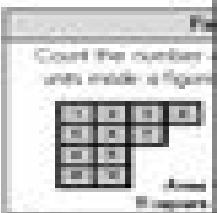
Area is a measure of space within a plane figure.

Area is measured by the number of square units needed to cover a surface or a plane figure.

Units are written as square units or unit^2 .

Area is used in many real-life situations where a measure of space or surface covers. Here are some examples:

Fencing a yard Putting a rug down on the floor Painting



Volume is the measure of space that a three-dimensional object occupies. It is a measurement of the physical space inside an object, and measured in cubic units.

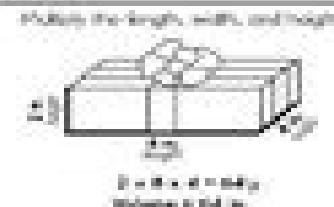
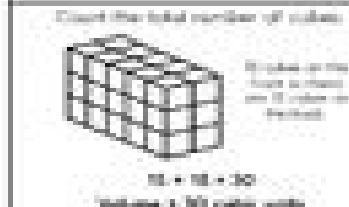
Capacity, on the other hand, refers to the amount of material (like liquid, gas, or other substances) that a container can hold. Capacity is often measured in units like liters, milliliters, gallons, or quarts.

For example:

- A water bottle has a certain volume, which tells you how much liquid it can hold (capacity).
- A box has a volume that indicates how much stuff you can pack inside it (capacity).
- An swimming pool has a volume that defines how much water it can contain (capacity).

In all these cases, volume is the measure of the space inside the object, which directly relates to its capacity. So, volume is a measure of capacity.

Finding Volume



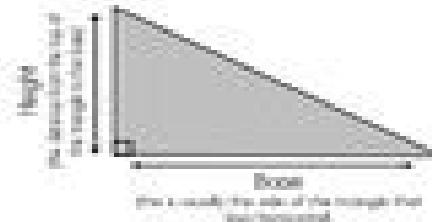
Volume is used in many real-life situations where you need to determine the amount of space inside an object. Here are some examples:

Filling a pool Painting a room Pouring ingredients Shipping Putting up a fence

Area of a Right Triangle

A right triangle is a triangle with one right angle.

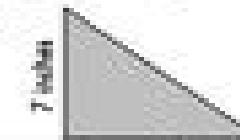
A right triangle has a base and a height that is used to determine the area of the triangle.



Finding Area of a Right Triangle

To find the area of a triangle, use the formula:

$$\frac{1}{2} \times \text{b} \times \text{h}$$



$$\frac{1}{2} \times 7 \times 7$$

$$\frac{1}{2} \times 49$$

$$\frac{49}{2} = 24.5 \text{ inches}^2$$

Area

100

100 = 100 in^2

100

100

100

100

100, but multiply it by half!!

The area of the rectangle is:
 $10 \times 7 = 70 \text{ in}^2$

The area of a triangle is **HALF** the base and the height because we are only taking **ONE HALF** of the shape.

$$10 \times 7 = 70 \text{ in}^2 \times \frac{1}{2}$$

$$= 35 \text{ in}^2$$

Includes important vocabulary like:

- ✓ Area
- ✓ Perimeter
- ✓ Volume

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N Colangelo

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