

The background of the image is a dense, chaotic pattern of black numbers of various sizes and orientations scattered across a light gray background. The numbers include digits from 0 to 9, with some appearing in larger, bolder fonts than others. The overall effect is a busy, abstract field of numerals.

Volume

# What is volume?

Volume is the number of cubic units that are needed to fill a solid.

# Examples of volume in the real world

~ fueling your car for travel

~ cooking/baking

~ filling up pools and hot tubs

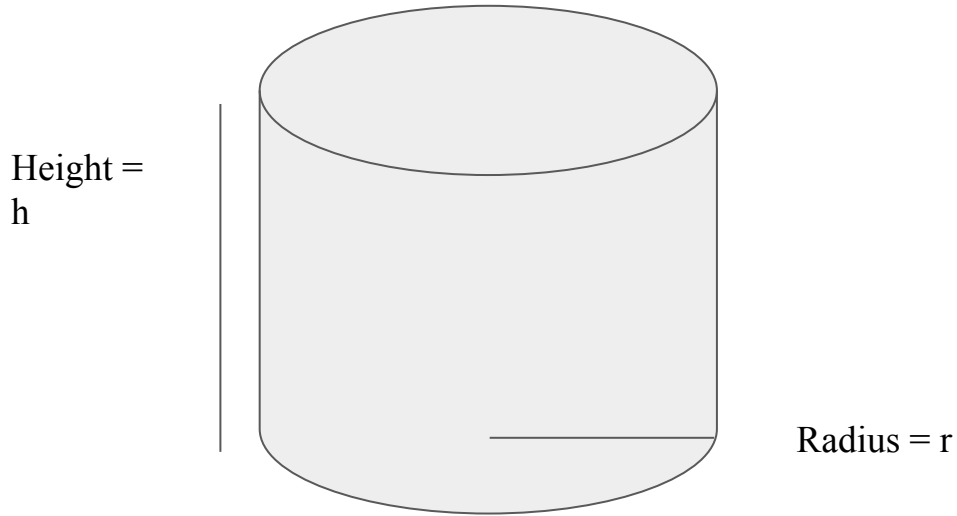


The image features a background of various black numbers (0-9) scattered across a white surface. The numbers are of different sizes and orientations, creating a dense, abstract pattern. In the center, the word "Cylinders" is written in a large, black, serif font, enclosed within a white rectangular box.

Cylinders

# Volume of Cylinders

The formula for the volume of a cylinder is  $V = \pi r^2 h$ . (radius to the second power)



# Real-World examples of volume of a cylinder

~ Soda Cans

~ Jenga container



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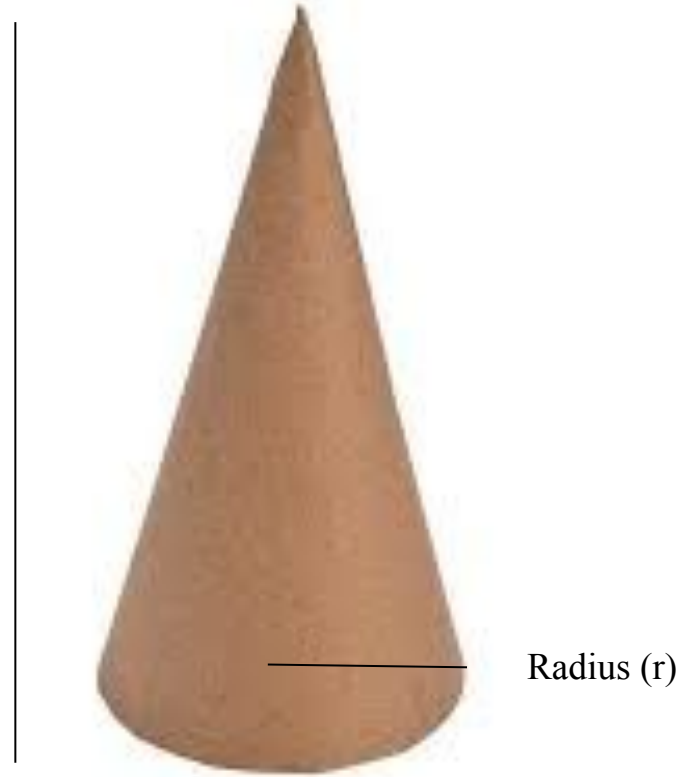
The image features a white background densely populated with various black numbers (0-9) scattered across the frame. The numbers are of different sizes and orientations, creating a busy, abstract pattern. In the center of the image, there is a white rectangular box containing the word "Cones" written in a black, serif font.

Cones

# Volume of a Cone

The volume of a cone is  $v = \frac{1}{3}\pi r^2(h)$ .

Height (h)





# Real-World Examples

~ Ice cream cones

~ Party hats

~ Paper cups



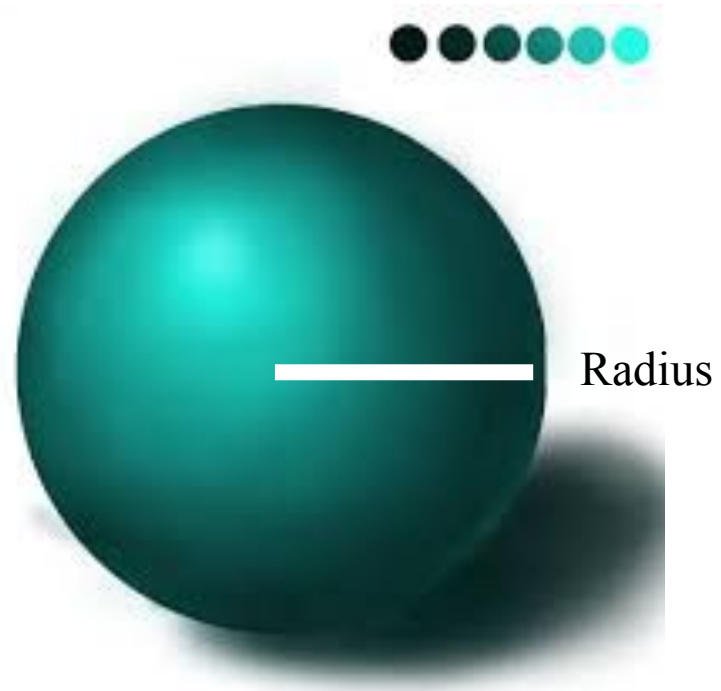
The image features a dense, scattered pattern of black numbers (0-9) on a white background. The numbers are of various sizes and orientations, creating a sense of randomness and complexity. In the center, the word "Spheres" is written in a large, black, serif font, enclosed within a white rectangular box that stands out against the busy numerical background.

Spheres

# Volume of a Sphere/Hemispheres

The formula is  $v = \frac{4}{3}\pi(r^3)$  Spheres

The formula is  $v = \frac{2}{3}\pi(r^3)$  Hemisphere



# Real-World Examples of Spheres

~Soccer Ball

~Basketball

~The Earth



# Useful tips and information

Make Sure you follow through each of the steps

REMEMBER that the power of 2 doesn't mean multiplying by 2, but rather multiplying by itself. (ex.  $4 \times 4$ )

Use 3.14 for  $\pi$

Do your Best!