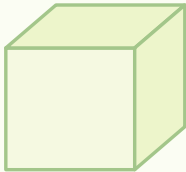


Volume formulas

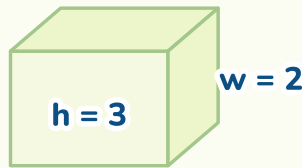


$$s = 4$$

Cube

$$s \times s \times s$$

$$4 \times 4 \times 4 = 64$$

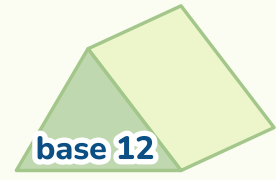


$$l = 5$$

Box

$$l \times w \times h$$

$$5 \times 3 \times 2 = 30$$



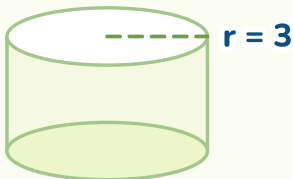
base 12

height 5

Prism

$$\text{Base area} \times \text{height}$$

$$12 \times 5 = 60$$

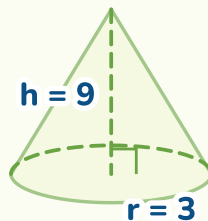


$$h = 10$$

Cylinder

$$\pi \times r \times r \times h$$

$$3.14 \times 9 \times 10 = 283$$



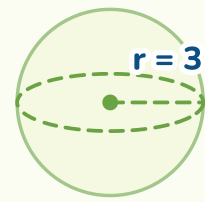
$$h = 9$$

$$r = 3$$

Cone

$$\pi \times r \times r \times h \div 3$$

$$254 \div 3 \approx 85$$



$$r = 3$$

$$\pi \approx 3.14$$

Sphere

$$4 \div 3 \times \pi \times r^3$$

$$1.33 \times 3.14 \times 27 \approx 113$$

Volume is how much fits inside, counted in cubes — so the answer is cu cm or cu in. Every one of these is really the area of the base, repeated all the way up.