GEOMETRY FORMULAS

Square

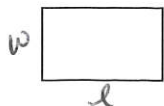Area: s^2

Perimeter: $4s$

s

Labels

perimeter = units
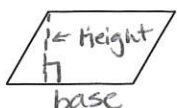
area = units^2

volume = units^3

Rectangle

Area: $\ell \cdot w$

Perimeter: $2\ell + 2w$

w ℓ

3 Steps

1. Write the formula
2. Plug numbers into formula
3. Answer with correct label

Parallelogram

← Height

h

base

Area: $b \cdot h$

Perimeter: $2\ell + 2w$

Triangle

height

base

Area: $b \cdot h \div 2$

Perimeter: sum of sides

Trapezoid

base 1

← height

base 2

Area: $(b_1 + b_2) \cdot h \div 2$

Perimeter: sum of sides

bases = parallel sides

height = perpendicular to bases

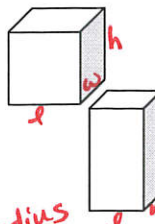### Circle $\pi = 3.14$

radius

diameter

Area: $\pi \cdot r^2$

Circumference: $\pi \cdot d$ or $2 \cdot \pi \cdot r$

Finding radius/diameter given Area: $A \div \pi = \sqrt{n} = r \cdot 2 = d$

Finding radius/diameter given
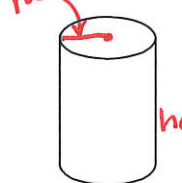
Circumference: $C \div \pi = d \div 2 = r$

Cube/rectangular prism

h

w

ℓ

h

ℓ w

Surface area: $\ell \cdot w \cdot 2 =$

$\ell \cdot h \cdot 2 =$

$w \cdot h \cdot 2 = \quad +$

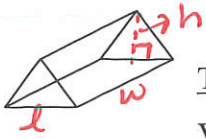Volume: $\ell \cdot w \cdot h$

Cylinder

radius

height

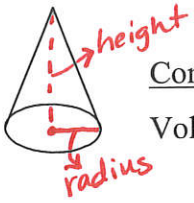Surface area: $2 \cdot \pi \cdot r^2 =$

$2 \cdot \pi \cdot r \cdot h = \quad +$

Volume: $\pi \cdot r^2 \cdot h$

Triangular Prism

Volume: $\ell \cdot w \cdot h \div 2$

Cone

Volume: $\pi \cdot r^2 \cdot h \div 3$

Surface Area: $\pi \cdot r^2 =$

$\pi \cdot r \cdot \ell =$ +

Pyramid

Volume: $\ell \cdot w \cdot h \div 3$

Surface Area: $B + (P \cdot \ell \div 2)$

ℓ = slant height of cone

B = base area   P = base perimeter

ℓ = slant height of pyramid