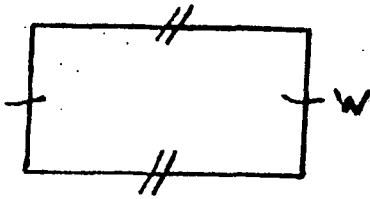


MR. B'S Gr. 8 FORMULA SHEET

AREA:

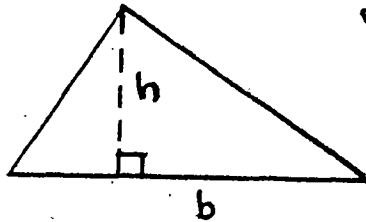
rectangle



$$A = (L \times w)$$

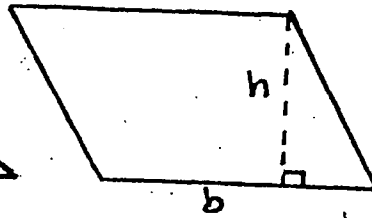
$$\text{perimeter} = 2L + 2w$$

Triangle



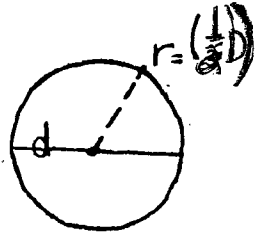
$$A = \frac{(b \times h)}{2}$$

PARALLELOGRAM



$$A = (b \times h)$$

circle



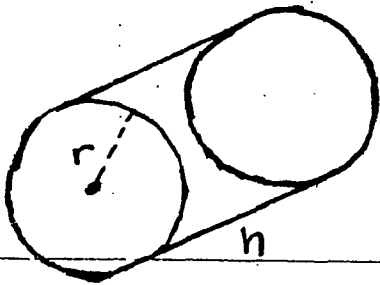
$$A = \pi (r)^2$$

$$C = \pi d \text{ or } \pi(2r)$$

• ALL triangles = 180°

VOLUME:

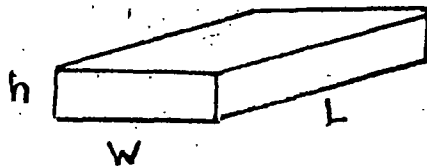
cylinder



$$V = (\text{Area of base}) \times (\text{height})$$

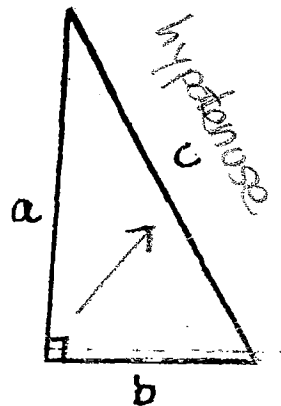
$$\pi (r)^2 \times h$$

rectangular prism



$$V = (\text{Area of base}) \times (\text{height})$$

$$(L \times w) \times (h)$$



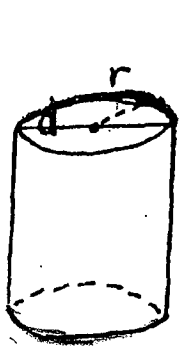
* pythagorean theorem

$$a^2 + b^2 = c^2$$

• works for right angle triangles only

SURFACE AREA:

S.A. = the area of ALL OF the FACES ADDED together!



$$\pi (r)^2$$

circumference $(\pi \times D)$
 \times
 height

$$\pi (r)^2$$

* A cylinder has 3 FACES = 3 Areas to add together

TOP*
 $\pi (r)^2$
 +
 Middle
 $(\pi \times D) \times h$

+
 Bottom
 $\pi (r)^2$

* A rectangular prism has 6 FACES

TOP/BOTTOM $(L \times w) \times 2$
 + front/BACK $(L \times h) \times 2$
 + side/side $(w \times h) \times 2$

