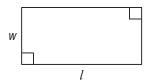
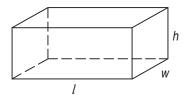
ALGEBRA I FORMULA SHEET

Formulas that you may need to solve questions on this exam are found below. You may use calculator π or the number 3.14 as an approximation of π .



$$A = lw$$



$$V = lwh$$

Linear Equations

Slope:
$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

Point-Slope Formula: $(y - y_1) = m(x - x_1)$

Slope-Intercept Formula: y = mx + b

Standard Equation of a Line: Ax + By = C

Arithmetic Properties

Additive Inverse: a + (-a) = 0

Multiplicative Inverse: $a \cdot \frac{1}{a} = 1$

Commutative Property: a+b=b+a

 $a \cdot b = b \cdot a$

Associative Property: (a + b) + c = a + (b + c)

 $(a \cdot b) \cdot c = a \cdot (b \cdot c)$

Identity Property: a + 0 = a

 $a \cdot 1 = a$

Distributive Property: $a \cdot (b+c) = a \cdot b + a \cdot c$

Multiplicative Property of Zero: $a \cdot 0 = 0$

Additive Property of Equality:

If a = b, then a + c = b + c

Multiplicative Property of Equality:

If a = b, then $a \cdot c = b \cdot c$