

ASVAB Math Formula Sheet & Explanation

Area of a:

Square, $A = S^2$

Rectangle, $A = lw$

Parallelogram, $A = b.h$

Triangle, $A = \frac{bh}{2}$

Circle, $A = \pi r^2$

Perimeter of a:

Square, $P = 4S$

Rectangle, $P = 2l + 2w$

Triangle, $P = S_1 + S_2 + S_3$

Circumference of a circle, $C = 2\pi r$

Volume of a:

Cube, $V = lwh$

Math Knowledge:

Slope of a line, $m = \frac{y_2 - y_1}{x_2 - x_1}$

Equation of a straight line, $y = mx + b$

Simple Interest, $I = PRT$ (I = interest, P = principal, R = rate, t = time)

Pythagorean theorem, $a^2 + b^2 = c^2$

Ratio: $\frac{\text{Part}}{\text{whole}} = \frac{\text{Part}}{\text{whole}}$

Percent:

Percent increase or decrease, %
 $= \frac{\text{sale price} - \text{Actual price}}{\text{Actual price}} \times 100$

Factorials:

$5! = 5 \times 4 \times 3 \times 2 \times 1 = 120$

Distance formula:

Distance, $D = \text{Rate} \times \text{Time}$

Measurement:

1ft=12-inch, 1 yard= 36 inch

1quart = 2-pint, 1 gallon= 4 quart

1 ton= 2000 lbs.

Sum of all angles in a triangle= 180 degree

Sum of all angles in a rectangle/square= 360 degree