GED® Formula Sheet

This page will be provided when you take the GED® Mathematics Test. Although you do not need to memorize these formulas, it is a good idea to be familiar with the contents of this page so that you will know when to use it.

FORMULAS

AREA of a:

square	Area = side^2
rectangle	Area = length × width
parallelogram	Area = base × height
triangle	Area = $\frac{1}{2}$ × base × height
trapezoid	Area = $\frac{1}{2}$ × (base_1 + base_2) × height
circle	Area = π × radius^2; π is approximately equal to 3.14.

PERIMETER of a:

square	Perimeter = 4 × side
rectangle	Perimeter = 2 × length + 2 × width
triangle	Perimeter = side_1 + side_2 + side_3

CIRCUMFERENCE of a:

circle	Circumference = π × diameter; π is approximately equal to 3.14.

VOLUME of a:

cube	Volume = edge^3
rectangular solid	Volume = length × width × height
square pyramid	Volume = $\frac{1}{3}$ × $(\text{base edge})^2$ × height
cylinder	Volume = π × radius^2 × height; π is approximately equal to 3.14.
cone	Volume = $\frac{1}{3}$ × π × radius^2 × height; π is approximately equal to 3.14.

COORDINATE GEOMETRY

distance between points = $\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$; (x_1,y_1) and (x_2,y_2) are two points in a plane.

slope of a line = $\frac{y_2 - y_1}{x_2 - x_1}$; (x_1,y_1) and (x_2,y_2) are two points on the line.

PYTHAGOREAN RELATIONSHIP

$a^2 + b^2 = c^2$; a and b are legs and c the hypotenuse of a right triangle.

MEASURES OF CENTRAL TENDENCY

mean = $\frac{x_1 + x_2 + \ldots + x_n}{n}$, where the x's are the values for which a mean is desired, and n is the total number of values for x.

median = the middle value of an odd number of ordered scores, and halfway between the two middle values of an even number of ordered scores.

SIMPLE INTEREST	interest = principal × rate × time
DISTANCE	distance = rate × time
TOTAL COST	total cost = (number of units) × (price per unit)