

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 = $\frac{1}{2} \times \text{base} \times \text{height}$
trapezoid	Area = $\frac{1}{2} \times (\text{base}_1 + \text{base}_2) \times \text{height}$
circle	Area = $\pi \times \text{radius}^2$; 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 = $\pi \times \text{diameter}$; π is approximately equal to 3.14.
VOLUME of a:	
cube	Volume = edge ³
rectangular solid	Volume = length × width × height
square pyramid	Volume = $\frac{1}{3} \times (\text{base edge})^2 \times \text{height}$
cylinder	Volume = $\pi \times \text{radius}^2 \times \text{height}$; π is approximately equal to 3.14.
cone	Volume = $\frac{1}{3} \times \pi \times \text{radius}^2 \times \text{height}$; 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 = $\frac{x_1 + x_2 + \dots + x_n}{n}$, 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 <u>ordered</u> scores, and halfway between the two middle values of an even number of <u>ordered</u> scores.	
SIMPLE INTEREST	interest = principal × rate × time
DISTANCE	distance = rate × time
TOTAL COST	total cost = (number of units) × (price per unit)