

WHAT MATH TEST IS RIGHT FOR YOU?

Test 1: Algebra Basics

Operation with Fractions	$\frac{3}{3} (+, -, \times, \div) \frac{2}{3}$
Operation with sign numbers	$-10+3-(-5)$
Order of Operations	$3(7)+2\cdot4-8^2$ PEMDAS: (), x^2 , \times , \div , $+$, $-$
Substituting values into algebraic expressions	Evaluate the expression if $x=-3$, $y=4$, and $a=4$ $3x-5y+4a$
Basic Operations with Polynomials	$(5x^2+6x-3)+(x^2-7x-9)$
Solving linear equations in one variable	$x+6=-3$

YOU CHOOSE!

Test 2: Algebra Core

Evaluating Functions	If $f(x)=3x^2-5$, find $f(-3)$ $f(-3)=$
Linear Equation in two variables/Linear Functions	$y=mx+b$
Linear inequalities and interval notation	$-20x-40 \leq -5(3x+13)$
Quadratic equations and functions	$3x^2-5x-7=0$
Solve systems of equations	$3y-2x=11$ $y=$ $y+2x=9$ $x=$
Operations with polynomials	$-9x^3(-2x^3-5x^2+1)$
Rules of Exponents	$\frac{3y^{-4}}{(5y)^3}$

Test 3: Algebra STEM

- Factoring
- Completing the square
- Simplifying rational expressions
- Simplifying expressions with radicals/fractional exponents
- Simplifying logarithmic expressions using Laws of Logarithms
- Solving quadratic equations
- Solving rational equations
- Solving radical equations
- Solving exponential equations
- Solving logarithmic equations
- Properties of quadratic, rational, radical, exponential, and logarithmic functions (evaluating, domain,...)
- Algebra of functions
- Composition of functions
- Inverse functions

Test 4: Trigonometry

- Evaluating trigonometric expressions
- Right triangle trigonometry
- Properties of trigonometric functions (domain, amplitude, period,...) and their inverses
- Simplifying trigonometric expressions using identities
- Solving trigonometric equations