



CO00001378



# Colorado Measures of Academic Success

## Mathematics Reference Sheet

### Algebra I, Geometry, Integrated Mathematics I, Integrated Mathematics II

- 1 inch = 2.54 centimeters
- 1 meter = 39.37 inches
- 1 mile = 5280 feet
- 1 mile = 1760 yards
- 1 mile = 1.609 kilometers
- 1 kilometer = 0.62 mile
- 1 pound = 16 ounces
- 1 pound = 0.454 kilograms
- 1 kilogram = 2.2 pounds
- 1 ton = 2000 pounds
- 1 cup = 8 fluid ounces
- 1 pint = 2 cups
- 1 quart = 2 pints
- 1 gallon = 4 quarts
- 1 gallon = 3.785 liters
- 1 liter = 0.264 gallons
- 1 liter = 1000 cubic centimeters

Triangle	$A = \frac{1}{2}bh$
Parallelogram	$A = bh$
Circle	$A = \pi r^2$
Circle	$C = \pi d$ or $C = 2\pi r$
General Prisms	$V = Bh$
Cylinder	$V = \pi r^2 h$
Sphere	$V = \frac{4}{3} \pi r^3$
Cone	$V = \frac{1}{3} \pi r^2 h$
Pyramid	$V = \frac{1}{3} Bh$

Quadratic Formula	$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$
Arithmetic Sequence	$a_n = a_1 + (n - 1)d$
Geometric Sequence	$a_n = a_1 r^{n-1}$
Geometric Series	$S_n = \frac{a_1 - a_1 r^n}{1 - r}$ where $r \neq 1$
Radians	1 radian = $\frac{180}{\pi}$ degrees
Degrees	1 degree = $\frac{\pi}{180}$ radians



# Colorado Measures of Academic Success

## Hoja de referencia de matemática

### Álgebra I, Geometría, Matemáticas integradas I, Matemáticas integradas II

- |                              |                            |                                    |
|------------------------------|----------------------------|------------------------------------|
| 1 pulgada = 2.54 centímetros | 1 kilómetro = 0.62 millas  | 1 taza = 8 onzas líquidas          |
| 1 metro = 39.37 pulgadas     | 1 libra = 16 onzas         | 1 pinta = 2 tazas                  |
| 1 milla = 5280 pies          | 1 libra = 0.454 kilogramos | 1 cuarto = 2 pintas                |
| 1 milla = 1760 yardas        | 1 kilogramo = 2.2 libras   | 1 galón = 4 cuartos                |
| 1 milla = 1.609 kilómetros   | 1 tonelada = 2000 libras   | 1 galón = 3.785 litros             |
|                              |                            | 1 litro = 0.264 galones            |
|                              |                            | 1 litro = 1000 centímetros cúbicos |

Triángulo	$A = \frac{1}{2}bh$
Paralelogramo	$A = bh$
Círculo	$A = \pi r^2$
Círculo	$C = \pi d$ o $C = 2\pi r$
Prismas generales	$V = Bh$
Cilindro	$V = \pi r^2 h$
Esfera	$V = \frac{4}{3} \pi r^3$
Cono	$V = \frac{1}{3} \pi r^2 h$
Pirámide	$V = \frac{1}{3} Bh$

Fórmula cuadrática	$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$
Secuencia aritmética	$a_n = a_1 + (n - 1)d$
Secuencia geométrica	$a_n = a_1 r^{n-1}$
Serie geométrica	$S_n = \frac{a_1 - a_1 r^n}{1 - r}$ donde $r \neq 1$
Radianes	1 radián = $\frac{180}{\pi}$ grados
Grados	1 grado = $\frac{\pi}{180}$ radianes