

Algebra 1

Literal Equations



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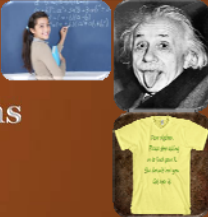


Overview

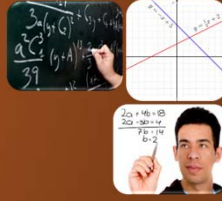
The Percent Equations

Geometric Formulas

Literature Equations



Overview

$$\begin{array}{r} a = b - c \\ -a \quad -a \\ \hline 0 = b - c - a \\ +c \quad +c \\ \hline c = b - a \end{array}$$


Literal Equations




Solve for x:
 $2x + 3 = z$

You Try

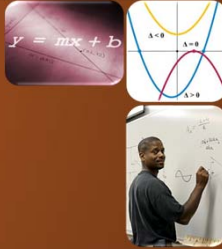
Solve for x:

$$2x + 3 = z$$

$$2x + 3 - 3 = z - 3$$

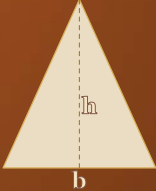
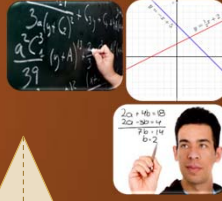
$$2x = z - 3$$

$$2x \div 2 = (z - 3) \div 2$$

$$x = \frac{1}{2}z - 1\frac{1}{2}$$


You Try


$A = \frac{1}{2}bh$
 $2 \cdot A = 2 \cdot \frac{1}{2}bh$
 $2A = bh$
 $\frac{2A}{h} = \frac{bh}{h}$
 $\frac{2A}{h} = b$

Literal Equations

$C = \pi d$

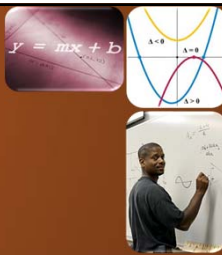
Express diameter (d) in terms of Circumference (C) and π .



You Try

$C = \pi d$

$\frac{C}{\pi} = \frac{\pi d}{\pi}$ $\frac{C}{\pi} = d$



You Try

What is the height of this rectangle?

$A = bh = 60 \text{ sq. in.}$

$b = 15''$

You Try

What is the height of this rectangle?

$A = bh = 60 \text{ sq. in.}$

$b = 15''$

$A = bh$

$A \div b = h$

$60 \text{ sq in} \div 15 \text{ in} = h$

$4'' = h$

You Try

whole

part

$\frac{\text{part}}{\text{whole}} = \frac{\text{Percent}}{100}$

$\text{part} * 100 = \text{whole} * \text{Percent}$

$p = 2$
 $w = 10$

$\frac{2}{10} = \frac{\text{Percent}}{100}$

$200 = 10 * \text{Percent}$

$20 = \text{Percent}$



Literal Equations


768 is 48% of what number?





You Try 

768 is 48% of what number?

$$\frac{768}{x} = \frac{48}{100}$$
$$768 * 100 = 48x$$
$$76,800 \div 48 = x$$
$$1,600 = x$$


You Try 

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