


MasterMath

Algebra

REWRITING EQUATIONS AND FORMULAS



"The grass is always greener"



$A = b \times w$ $\frac{A}{w} = b$

REWRITING EQUATIONS AND FORMULAS

$x = y + z$

$x - z = y + z - z$

$x - z = y$

$x = y \div z$

$x * z = y \div z * z$

$xz = y$

REWRITING EQUATIONS AND FORMULAS

Solve for b:

height (h)

AREA = b x h

base (b)

$A = b \times h$

$A \div h = b \times h \div h$

$A \div h = b$

Solve for h:

$A = b \times h$

$A \div b = b \times h \div b$


$A \div b = h$

REWRITING EQUATIONS AND FORMULAS

You try it!

Solve for x:

$3x = y$



REWRITING EQUATIONS AND FORMULAS

You try it!

Solve for x:

$3x = y$


$3x \div 3 = y \div 3$

$x = y \div 3$

REWRITING EQUATIONS AND FORMULAS

You try it!

Area = 36
 Base = 12
 Height = h




Solve for h

($A = \frac{1}{2} \times b \times h$)

REWRITING EQUATIONS AND FORMULAS

You try it!

Area = 36
 Base = 12
 Height = h



Solve for h

($A = \frac{1}{2} \times b \times h$)

$A = \frac{1}{2} \times b \times h$
 $2A = 2 \times \frac{1}{2} \times b \times h$
 $2A = b \times h$
 $2A \div b = b \times h \div b$
 $\frac{2A}{b} = h$
 $\frac{2 \times 36}{12} = h = 6$

REWRITING EQUATIONS AND FORMULAS

You try it!

Your job pays you (P = weekly total pay) an hourly rate of \$5 per hour times the number of hours that you work (h), plus expenses (e). The formula to determine your weekly pay is $P = h \times \$5 + e$. Last week you earned a total of \$125, and your expenses were \$15. How many hours did you work?

REWRITING EQUATIONS AND FORMULAS

You try it!

Your job pays you (P = weekly total pay) an hourly rate of \$5 per hour times the number of hours that you work (h), plus expenses (e). The formula to determine your weekly pay is $P = h \cdot \$5 + e$. Last week you earned a total of \$125, and your expenses were \$15. How many hours did you work?

$$P = 5h + e$$

$$P - e = 5h + e - e$$

$$P - e = 5h$$

$$\frac{P - e}{5} = \frac{5h}{5}$$

$$\frac{P - e}{5} = h$$

$$\frac{\$125 - 15}{5} = h$$

$$22 = h$$

REWRITING EQUATIONS AND FORMULAS

You try it!

Solve for z:

$$2z + x = y - 4$$

REWRITING EQUATIONS AND FORMULAS

You try it!

Solve for z:

$$2z + x = y - 4$$

$$2z + x - x = y - 4 - x$$

$$2z = y - x - 4$$

$$2z \div 2 = (y - x - 4) \div 2$$

$$z = (y - x - 4) \div 2$$

REWRITING EQUATIONS AND FORMULAS
