

MasterMath



Algebra

SOLVING TWO-STEP EQUATIONS



SOLVING TWO-STEP EQUATIONS



SOLVING TWO-STEP EQUATIONS

$$5x - 6 = 14$$

$$5x - 6 + 6 = 14 + 6$$

$$5x = 20$$

$$5x \div 5 = 20 \div 5$$

$$x = 4$$

Do Addition and Subtraction Steps Before
Multiplication and Division Steps



SOLVING TWO-STEP EQUATIONS

$$(z \div 2.5) + 12 = 18$$



You Try

SOLVING TWO-STEP EQUATIONS

$$(z \div 2.5) + 12 = 18$$

$$(z \div 2.5) + 12 - 12 = 18 - 12$$

$$(z \div 2.5) = 6$$

$$z \div 2.5 * 2.5 = 6 * 2.5$$

$$z = 15$$

You Try

SOLVING TWO-STEP EQUATIONS

You and your friend start a baby-sitting business. After 3 months, you earned \$16 less than twice what your friend earned. You earned \$83. How much did your friend earn?

You Try It!

SOLVING TWO-STEP EQUATIONS

You and your friend start a baby-sitting business. After 3 months, you earned \$16 less than twice what your friend earned. You earned \$83. How much did your friend earn?

$$2x - \$16 = \$83$$

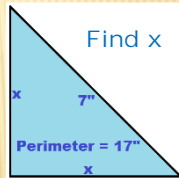
$$2x - 16 + 16 = 83 + 16$$

$$2x = 99$$

$$x = \$49.50$$

You Try

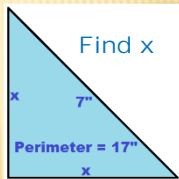
SOLVING TWO-STEP EQUATIONS



You Try

SOLVING TWO-STEP EQUATIONS

- $17 = 2x + 7$
- $17 - 7 = 2x + 7 - 7$
- $10 = 2x$
- $10 \div 2 = 2x \div 2$
- $5 = x$



You Try

SOLVING TWO-STEP EQUATIONS

$$16 - 3z = 28$$

You Try It!

SOLVING TWO-STEP EQUATIONS

$$16 - 3z = 28$$

$$16 - 16 - 3z = 28 - 16$$

$$-3z = 12$$

$$-3z \div (-3) = 12 \div (-3)$$

$$z = -4$$

You Try It!

SOLVING TWO-STEP EQUATIONS

Now, try it on your own. Go to www.MasterMath.info download *Solving Two-Step Equations* from the Worksheets Page, and test your skill. Then see how much you understand by taking the Subject Quiz