



MasterMath



Algebra


SOLVING EQUATIONS WITH ADDITION AND SUBTRACTION



SOLVING EQUATIONS WITH ADDITION AND SUBTRACTION


Solve for x:

$x + 6 = 16$



Isolate the "x"

Change so "x" is alone on one side;
Re-write equations so it reads "x ="



SOLVING EQUATIONS WITH ADDITION AND SUBTRACTION

Solve for x:


$x + 6 = 16$

Use Inverse Operation to Move "6"
to the Other Side of the Equation

The Opposite of Adding 6 is Subtracting 6

$x + 6 - 6$

$x + 6 - 6 \neq 16$



SOLVING EQUATIONS WITH ADDITION AND SUBTRACTION

15 = 15



SOLVING EQUATIONS WITH ADDITION AND SUBTRACTION

15 ≠ 15 + 1



SOLVING EQUATIONS WITH ADDITION AND SUBTRACTION

15 + 1 = 15 + 1



SOLVING EQUATIONS WITH ADDITION AND SUBTRACTION

Solve for x:

$$x + 6 = 16$$

$$x + 6 - 6 = 16 - 6$$

$$x = 10$$



SOLVING EQUATIONS WITH ADDITION AND SUBTRACTION

$$y - 12 = 6$$

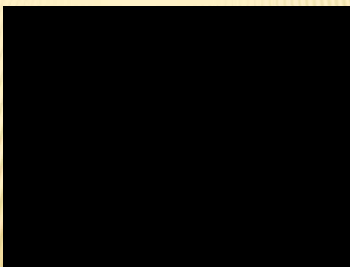
$$y - \cancel{12} + \cancel{12} = 6 + 12$$

$$y = 18$$

$$\begin{array}{r} y - 12 = 6 \\ + 12 = +12 \\ \hline y = 6 + 12 \\ y = 18 \end{array}$$


SOLVING EQUATIONS WITH ADDITION AND SUBTRACTION

$$x + 26 = 14$$



You Try

SOLVING EQUATIONS WITH ADDITION AND SUBTRACTION

$$x + 26 = 14$$

$$\begin{array}{r} -26 = -26 \\ \hline x = 14 - 26 \\ x = -12 \end{array}$$

You Try 

SOLVING EQUATIONS WITH ADDITION AND SUBTRACTION

$$z + 9 - 11 = 14$$

You Try It!

SOLVING EQUATIONS WITH ADDITION AND SUBTRACTION

$$z + 9 - 11 = 14$$

$$z - 2 = 14$$

$$z \cancel{- 2} \cancel{+ 2} = 14 + 2$$

$$z = 16$$

You Try 

SOLVING EQUATIONS WITH ADDITION AND SUBTRACTION

Your father is 10" taller than your mother. Your mother is 5' 1" tall. How tall is your father? Write an equation to solve this problem, and then solve.

You Try 

SOLVING EQUATIONS WITH ADDITION AND SUBTRACTION

Your father is 10" taller than your mother. Your mother is 5' 1" tall. How tall is your father? Write an equation to solve this problem, and then solve.

↳ f

$$f - 10'' = 5' 1''$$
$$f - 10'' + 10'' = 5' 1'' + 10''$$
$$f = 5' 11''$$

You Try 

SOLVING EQUATIONS WITH ADDITION AND SUBTRACTION

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