


**MasterMath**

**Algebra**

SOLVING SYSTEMS OF LINEAR EQUATIONS, PART 1




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Systems of Linear Equations

$$2x + 3y = 14$$

$$6b - 12 = 4c$$

$$2x + 3y = 14$$

$$6x - 12 = 4y$$

Solving Systems of Linear Equations

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Systems of Linear Equations


← q

q + d = .35
d →


$$q + 2d = .45$$

$$q + d = .35$$

$$(.35 - d) + 2d = .45$$

$$.35 + d = .45$$

$$.35 - .35 + d = .45 - .35$$

$$d = .1$$

$$q + d = .35$$

$$q + .1 = .35$$

$$q = .35 - .1$$

$$q = .25$$

Solving Systems of Linear Equations

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*Systems of Linear Equations*



← q

q + d = .35

q + 2d = .45



d →

$$\begin{aligned} q + d &= .35 & q + 2d &= .45 \\ q + d - d &= .35 - d & q + 2d - 2d &= .45 - 2d \\ q &= .35 - d & q &= .45 - 2d \end{aligned}$$

$$\begin{aligned} .35 - d &= .45 - 2d \\ .35 - .35 - d &= .45 - .35 - 2d \\ -d &= .1 - 2d \\ -d + 2d &= .1 - 2d + 2d \\ d &= .1 \end{aligned}$$

Solving Systems of Linear Equations

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**You try it!**

$$\begin{aligned} x + 4 &= y \\ 3x &= y + 18 \end{aligned}$$

Solving Systems of Linear Equations

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**You try it!**

$$\begin{aligned} x + 4 &= y \\ 3x &= y + 18 \end{aligned}$$

$$\begin{aligned} 3x &= y + 18 \\ 3x &= x + 4 + 18 \\ 3x &= x + 22 \\ 3x - x &= x - x + 22 \\ 2x &= 22 \\ x &= 11 \end{aligned}$$

Solving Systems of Linear Equations

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**You try it!**

$$3x - 2 = y$$

$$2x + 4 = 2y$$

Solving Systems of Linear Equa

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**You try it!**

$$3x - 2 = y$$

$$2x + 4 = 2y$$

$$2x + 4 = 2(3x - 2)$$

$$2x + 4 = 6x - 4$$

$$2x - 2x + 4 = 6x - 2x - 4$$

$$4 = 4x - 4$$

$$4 + 4 = 4x - 4 + 4$$

$$8 = 4x$$

$$8 \div 4 = 4x \div 4$$

$$2 = x$$

Solving Systems of Linear Equa

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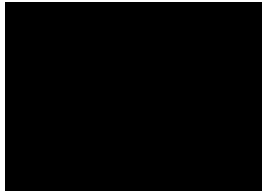
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**You try it!**

$$4b + 16 = 8c$$

$$2b + 6 = 2c$$



Solving Systems of Linear Equa

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***You try it!***

$$4b + 16 = 8c$$

$$2b + 6 = 2c$$

$$4b + 16 = 8c$$

$$(4b + 16) \div 8 = 8c \div 8$$

$$.5b + 2 = c$$

$$.5b + 2 = b + 3$$

$$.5b - .5b + 2 = b - .5b + 3$$

$$2 = .5b + 3$$

$$2 - 3 = .5b + 3 - 3$$

$$-1 = .5b$$

$$-2 = b$$

Solving Systems of Linear Equations

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***You try it!***

Now, try it on your own. Go to  
[www.MasterMath.info](http://www.MasterMath.info)  
 download  
*Solving Systems of Linear Equations,*  
*Part 1*  
 from the Worksheets Page, and test  
 your skill.

Solving Systems of Linear Equations

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