

Take out your WS from yesterday
Write the number of problems you attempted out of
24 on the top of the front page.

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LESSON
1.3 Writing Two-Step
Equations



Solve two-step equations algebraically.

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$2x + 5 = 7$

x
 $+$

x
 $+$

$+$
 $+$

$+$
 $+$

=

~~$+$~~
 ~~$+$~~

~~$+$~~
 ~~$+$~~

~~$+$~~
 ~~$+$~~

$+$
 $+$

$x = 1$

$2x$	$+$	5	$=$	7
$2x$	$+$	5	$=$	7
$2x$	$+$	5	$=$	7
x	$=$	1		

\checkmark $2(1) + 5 = 7$
 $2 + 5 = 7$
 $7 = 7$

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$3x - 4 = 5$

x
 $+$

x
 $+$

x
 $+$

=

$+$
 $+$

$+$
 $+$

$x = 3$

$3x$	$-$	4	$=$	5
$3x$	$-$	4	$=$	5
x	$=$	3		

\checkmark $3(3) - 4 = 5$
 $9 - 4 = 5$
 $5 = 5$

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$2a - 3 = -5$

$$\begin{array}{c} \boxed{2} \\ \boxed{a} \end{array} \begin{array}{c} + \\ - \\ - \\ + \end{array} = \begin{array}{c} \boxed{3} \\ \boxed{3} \\ \boxed{3} \end{array} \begin{array}{c} + \\ - \\ - \end{array}$$

$a = -1$

$\boxed{2a}$	-3	$= -5$
$+3$	$+3$	
<hr style="border: 0.5px solid black;"/>		
$2a$	$=$	-2
$\frac{2a}{2}$		$\frac{-2}{2}$
a	$=$	-1

$\checkmark 2(-1) - 3 = -5$
 $-2 - 3 = -5$
 $-5 = -5$

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$\frac{n}{2} + 5 = 3$

$$\boxed{\frac{n}{2}} \begin{array}{c} + \\ + \\ + \\ + \\ + \end{array} = \begin{array}{c} \boxed{3} \\ \boxed{3} \\ \boxed{3} \\ \boxed{3} \\ \boxed{3} \end{array} \begin{array}{c} + \\ - \\ - \\ - \\ - \end{array}$$

$n = -4$

$\boxed{\frac{n}{2}}$	$+5$	$= 3$
-5	-5	
<hr style="border: 0.5px solid black;"/>		
$\frac{n}{2}$	$=$	$-2 \cdot 2$
n	$=$	-4

$\checkmark \frac{-4}{2} + 5 = 3$
 $-2 + 5 = 3$
 $3 = 3$

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Two-Step Equations With Integers

Solve each equation.

1) $\frac{r}{10} + 4 = 5$

2) $\frac{n}{2} + 5 = 3$

3) $3p - 2 = -29$

4) $-r = -5$
 $\frac{-r}{-1} = \frac{-5}{-1}$
 $r = 5$

5) $\frac{k-10}{2} = -7 \cdot 2$

6) $\frac{n-5}{2} = 5$

$$\begin{array}{r} \boxed{k} - 10 = -14 \\ +10 \quad +10 \\ \hline k = -4 \end{array}$$

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7) $-9 + \frac{n}{4} = -7$
 $\frac{n}{4} = 2$
 $n = 8$

8) $\frac{9+m}{3} = 2$

9) $\frac{-5+x}{22} = -1$

10) $4n - 9 = -9$

11) $\frac{x+9}{2} = 3$

12) $\frac{-12+x}{11} = -3$

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Kuta Software - Infinite Pre-Algebra

Two-Step Equations With Integers

HW -

Worksheet - Back page (15-28)

Must be solved algebraically

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