March.9th, 2016

Unit 4 Day 1
4-1 Solving Equations + Translating Expressions

Phrase	Expression or Equation
1) Sum of a # and 12	$x+12$ (expression)
2) 8 less than a #	$n-8$
3) Two-fifths of a #	$\frac{2}{5}x = \frac{2x}{5}$ ~~$(=\frac{2}{5}x)$~~
"of" means multiply	
4) 5 more than twice a #	$2n+5$
5) Twice the sum of a # and 7	$2(n+7)$
6) The product of a # and one more than the #	$x(x+1)$
7) 3 less than twice a # **is** 8 more than the #.	$2n-3=n+8$
8) 6 more than an integer **is** 3 less than twice the next consecutive integer.	$x+6=2(x+1)-3$

Solving Equations Using Zero Sums

"$x=?$" goal

9) $3x-4=2x-5$

$-2x \quad -2x$

$x-4=-5$

$+4 \quad +4$

$x=-1$

10) $-2x+3=-3x-1$

$+2x \quad +2x$

$3=-x-1$

$+1 \quad +1$

$4=-x$

$-4=x$

$x=-4$

Practice

$-2x+3=-3x-1$

$+3x \quad +3x$

$x+3=-1$

$-3 \quad -3$

$x=-4$