

**Lesson 2-3d Consecutive Integer Equations Homework***Must show all work + let statements*

<b>1</b>	Find two consecutive integers whose sum is 61	<b>2</b>	Find two consecutive integers whose sum is -17
<b>3</b>	Find three consecutive integers whose sum is 48	<b>4</b>	Find three consecutive integers whose sum is -57
<b>5</b>	Find three consecutive even integers whose sum is 156	<b>6</b>	Find three consecutive even integers whose sum is -60
<b>7</b>	Find three consecutive odd integers who sum is 33	<b>8</b>	Find three consecutive odd integers who sum is -105
<b>9</b>	Find four consecutive odd integers whose sum is 112	<b>10</b>	Find four consecutive even integers whose sum is 60

<b>11</b>	<b>**Challenge**</b> Three consecutive even integers such that the sum of the first & the third is 40	<b>12</b>	<b>**Challenge**</b> Four consecutive integers such that the sum of the second and the fourth is 132
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## Common Core Spiral Review

13.) 7<sup>th</sup> Grade: Inequalities (Multiple Choice)

WORD PROBLEM	MULTIPLE CHOICE	Solve/Graph Inequality below
Tracy has \$35 to buy comic books and to pay for a movie ticket. Each comic book costs \$3. The movie ticket costs \$10. Which inequality can be used to determine how many comic books, $b$ , Tracy can buy?	<p><b>A.</b> <math>35 - 3b \leq 10</math></p> <p><b>B.</b> <math>35 - 3b \geq 10</math></p> <p><b>C.</b> <math>35 - 10b \leq 3</math></p> <p><b>D.</b> <math>35 - 10b \geq 3</math></p>	

14.) 7<sup>th</sup> Grade: Proportional Relationships

WORD PROBLEM	MULTIPLE CHOICE	Solve → Show all work
A box of sunflower seeds contains $p$ packets. Each packet of sunflower seeds contains $s$ seeds. Which equation can be used to find the number of sun flower seeds in a box, $b$ ?	<p><b>A.</b> <math>p = sb</math></p> <p><b>B.</b> <math>p = \frac{s}{b}</math></p> <p><b>C.</b> <math>b = ps</math></p> <p><b>D.</b> <math>b = \frac{p}{s}</math></p>	<p>a.) If there are 100 seeds in each packet, and there are 5 packets, how many seeds are in the box?</p> <p>b.) If there are 1200 seeds total and 60 packets, how many seeds are in each packet?</p>

### REGENTS PREP: Identify Properties

- 15.) When solving for the value of  $x$  in the equation  $4(x - 1) + 3 = 18$ , Aaron wrote the following lines on the board.

[line 1]	$4(x - 1) + 3 = 18$
[line 2]	$4(x - 1) = 15$
[line 3]	$4x - 1 = 15$
[line 4]	$4x = 16$
[line 5]	$x = 4$

Which property was used *incorrectly* when going from line 2 to line 3?

- 1) distributive
- 2) commutative
- 3) associative
- 4) multiplicative inverse

16.)

A method for solving  $5(x - 2) - 2(x - 5) = 9$  is shown below. Identify the property used to obtain each of the two indicated steps.

$5(x - 2) - 2(x - 5) = 9$	
(1) $5x - 10 - 2x + 10 = 9$	(1) _____
(2) $5x - 2x - 10 + 10 = 9$	(2) _____
$3x + 0 = 9$	
$3x = 9$	
$x = 3$	