

**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>30, 31</b>	<b>2</b>	Find two consecutive integers whose sum is -17  <b>-9, -8</b>
<b>3</b>	Find three consecutive integers whose sum is 48  <b>15, 16, 17</b>	<b>4</b>	Find three consecutive integers whose sum is -57  <b>-20, -19, -18</b>
<b>5</b>	Find three consecutive even integers whose sum is 156  <b>50, 52, 54</b>	<b>6</b>	Find three consecutive even integers whose sum is -60  <b>-22, -20, -18</b>
<b>7</b>	Find three consecutive odd integers who sum is 33  <b>9, 11, 13</b>	<b>8</b>	Find three consecutive odd integers who sum is -105  <b>-37, -35, -33</b>
<b>9</b>	Find four consecutive odd integers whose sum is 112  <b>25, 27, 29, 31</b>	<b>10</b>	Find four consecutive even integers whose sum is 60  <b>12, 14, 16, 18</b>

<b>11</b>	<p><b>**Challenge**</b> Three consecutive even integers such that the sum of the first &amp; the third is 40</p> <p><b>19, 20, 21</b></p>	<b>12</b>	<p><b>**Challenge**</b> Four consecutive integers such that the sum of the second and the fourth is 132</p> <p><b>64, 65, 66, 67</b></p>
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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? <b>B</b>	A. $35 - 3b \leq 10$ B. $35 - 3b \geq 10$ C. $35 - 10b \leq 3$ D. $35 - 10b \geq 3$	$b \leq 8\frac{1}{3}$ or $b \leq 8$ <b>(don't forget to switch the sign when dividing a negative)</b> <div style="text-align: center; margin-top: 20px;"> </div>

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, $b$ ? <b>C</b>	A. $p = sb$ B. $p = \frac{s}{b}$ C. $b = ps$ D. $b = \frac{p}{s}$	a.) If there are 100 seeds in each packet, and there are 5 packets, how many seeds are in the box? <b>500</b>  b.) If there are 1200 seeds total and 60 packets, how many seeds are in each packet?  <b>20</b>

### 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) _____
$3x + 0 = 9$	
$3x = 9$	
$x = 3$	