Name _____

Date ____

Consecutive Integer Problems - Guided Lesson Explanation

Explanation#1

Let x be the first of these two consecutive integers. Then the second is x+1. Since the sum of two consecutive integers x, x+1.

x + x + 1 = 65 2x + 1 = 65 2x = 65 - 1 $x = \frac{64}{2}$ x = 32

First even integer number is 32. Second is 32+1 = 33.

So, the answer is: 32, 33.

Explanation#2

3 consecutive integers can be represented with x, x+1 and x+2.

Next, we need an equation.

So since x is the smallest, and x+2 is the largest, let's just solve for x to get x, which we can derive the others after getting.

So 3x = x + 2 + 18 (because 3 times the smallest is 18 bigger than the larger).

Which simplifies to 3x = x + 20 2x = 20 x = 10To verify, 10 x 3 = 30 30 - 18 = 12So, the answer are 10, 11 and 12.



Tons of Free Math Worksheets at: © www.mathworksheetsland.com

Name _____

Date _____

Explanation#3

Let x be the first of these three consecutive even integers. Then the second is x+2.

Since the sum of these three consecutive even integers x, x+2. x + x+2 = 86 2x + 2 = 86

2x = 86 - 2

$$X = \frac{84}{2}$$

$$X = 42$$

First even integer number is 42. Second is 42+2 = 44.

So, the answer is: 42, 44.