

Consecutive Integers

10-31-17

Consecutive Integers are integers that are 1 # apart
- follow each other in a sequence

Example of consecutive integers: 1, 2, 3, 4, 5, 6, 7 ...

Example of consecutive even integers: 2, 4, 6, 8, 10, 12, 14 ...

Example of consecutive odd integers: 1, 3, 5, 7, 9, 11, 13 ...

Find three consecutive integers
with a sum of 63.

$$\boxed{X} + \boxed{X+1} + \boxed{X+2} = 63$$

1st Integer 2nd Integer 3rd Integer

$$\begin{aligned} 3X + 3 &= 63 \\ -3 &-3 \\ \hline 3X &= 60 \\ X &= 20 \end{aligned}$$

1st integer = 20
2nd integer = 21
3rd integer = 22

Find three consecutive EVEN integers
with a sum of 42.

$$\boxed{X} + \boxed{X+2} + \boxed{X+4} = 42$$

1st Integer 2nd Integer 3rd Integer

$$\begin{aligned} 3X + 6 &= 42 \\ 3X &= 36 \\ X &= 12 \end{aligned}$$

1st integer = 12
2nd integer = 14
3rd integer = 16

Find four consecutive ODD integers
with a sum of 56.

$$\boxed{X} + \boxed{X+2} + \boxed{X+4} + \boxed{X+6} = 56$$

1st Integer 2nd Integer 3rd Integer 4th Integer

$$\begin{aligned} 4X + 12 &= 56 \\ 4X &= 44 \\ X &= 11 \end{aligned}$$

1st integer = 11
2nd integer = 13
3rd integer = 15
4th integer = 17

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The sum of three consecutive integers is -114. Find the integers

The sum of three consecutive even integers is 138. Find the integers.

Find four consecutive odd integers whose sum is 216.

Find two consecutive integers whose sum is -171.