

Name _____

Date _____

8A: Algebra 1

Period _____

Consecutive Integer Word Problems

Consecutive Integers are integers that follow each other in order. The difference between them is (integers that increase by)

Write four consecutive integers beginning with 7, , , ,

Write four consecutive integers beginning with -2, , , ,

Write four consecutive integers beginning with x, , , ,

Consecutive Even Integers are integers that are even that follow each other in order. The difference between them is (integers that increase by and start with an #)

Write four consecutive even integers beginning with 4, , , ,

Write four consecutive even integers beginning with -10, , , ,

Write four consecutive even integers beginning with x, , , ,

Consecutive ODD Integers are integers that are odd that follow each other in order. The difference between them is (integers that increase by and start with an #)

Write four consecutive odd integers beginning with 5, , , ,

Write four consecutive odd integers beginning with -13, , , ,

Write four consecutive odd integers beginning with x, , , ,

****What do we notice about both consecutive even integers and consecutive odd integers?**

LEGEND

Legend for Consecutive Integers (CI)	Legend for Even/Odd Consecutive Integers (CEI/COI)
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1) If the sum of two consecutive integers is 13, find the smaller integer.

2) Find four consecutive even integers whose sum is -36.

3) Find two consecutive odd integers such that four times the larger is 29 more than three times the smaller.

4) Is it possible to find 3 consecutive even integers whose sum is 40? Why?

5) The sum of two consecutive odd integers has a maximum value of 20. What are the greatest possible integers?

6) If the sum of the smallest and the greatest of 4 consecutive even integers is 30, what is the sum of all four integers?

7) Is it possible to find 3 consecutive odd integers whose sum is 59? Why?

8) The sum of two consecutive integers is greater than 21. Find the smallest possible values for the integers.

9) The sum of two consecutive even integers is greater than 98 decreased by twice the larger. Find the smallest possible values for the integers.

****Challenge**** Set up the Legend & the Equation only . (don't solve)

****10)** Find three consecutive integers such that 4 times the first decreased by the second is 12 more than twice the third.