

MathFLIX CHALLENGE

October 4, 2007

Consecutive Number Patterns

Study the consecutive numbers below to calculate the sums. Can you discover any patterns?

Easy

Consecutive Numbers	Sum
5, 6	_____
5, 6, 7,	_____
5, 6, 7, 8,	_____
5, 6, 7, 8, 9,	_____
5, 6, 7, 8, 9, 10	_____

Consecutive Odd Numbers	Sum
1, 3	_____
5, 7, 9	_____
11, 13, 15, 17	_____

Consecutive Even Numbers	Sum
2, 4	_____
6, 8, 10	_____
12, 14, 16, 18	_____

Challenging

Consecutive Numbers

What two consecutive numbers equal 51?

What three consecutive numbers equal 36?

What four consecutive numbers equal 22?

What five consecutive numbers equal 60?

What six consecutive numbers equal 99?

Consecutive Odd Numbers

What two consecutive odd numbers equal 8?

What three consecutive odd numbers equal 27?

What four consecutive odd numbers equal 96?

Check out this short cut for adding consecutive numbers.

2, 4, 6, 8, 10, 12

$$\begin{array}{r} 2 + 12 = 14 \\ 4 + 10 = 14 \\ 6 + 8 = \underline{+14} \\ \hline 42 \end{array}$$

1, 2, 3, 4, 5

$$\begin{array}{r} 1 + 5 = 6 \\ 2 + 4 = 6 \\ \underline{+3} \\ \hline 15 \end{array}$$

Consecutive Even Numbers

What two consecutive even numbers equal 22?

What three consecutive even numbers equal 66?

What four consecutive even numbers equal 300?
