

Adding Integers with the Same Signs

Algorithm	Examples
1. Find the sum (answer to an addition problem) of the numbers' absolute values (the value of a number without the sign). 2. Put the sign back on the answer.	$1 + 9$ $\begin{array}{r} 1 \\ + 9 \\ \hline 10 \end{array}$ 10
	$-5 + (-16)$ $\begin{array}{r} 16 \\ 5 \\ \hline 21 \end{array}$ -21

Adding Integers with Different Signs

Algorithm	Examples
1. Find the difference (answer to a subtraction problem) of the numbers' absolute values. <i>(bigger #'s absolute value MINUS smaller #'s absolute value)</i> 2. The sign on your answer will be the same as the sign of the number with the biggest absolute value.	$-10 + 16$ $\begin{array}{r} 16 \\ -10 \\ \hline 6 \end{array}$ 6
	$75 + (-95)$ $\begin{array}{r} 95 \\ -75 \\ \hline 20 \end{array}$ -20

Subtracting Integers

Algorithm	Examples
1. Keep the first number the same. 2. Flip subtraction to addition. 3. Change the sign of the second number. 4. Follow the steps for adding integers.	$-1 - 16$ $\begin{array}{r} 16 \\ + 1 \\ \hline 17 \end{array}$ -17
	$-3 - (-10)$ $\begin{array}{r} 10 \\ - 3 \\ \hline 7 \end{array}$ 7

When subtracting a negative number.....

When subtracting a positive number.....

Amount will INCREASE

Amount will DECREASE