

Adding Integers: Same Sign

When both integers have the same sign, you add the integers, and the answer will also have the same sign

$$(+)+(+)=+ \quad 5+4=9$$

$$(-)+(-)=- \quad (-7)+(-3)=-10$$

Adding Integers: Different Signs

When the signs are different, we look for the difference between the two numbers and sign with the larger number.

$$(-4) + (5) = 1 \quad \text{Larger Number}$$

↓
Larger Number

$$(-5) + (4) = -1$$

↑

Subtracting Integers

When we subtract, change the question to addition by using

STAY - CHANGE - CHANGE

Then follow the rules for addition

$$-8 - 6 \rightarrow (-8) + (-6) = -14$$

Multiplying Integers

Multiply the numbers and follow the rules below:

$$(+)(+) = +$$

$$(-)(-) = +$$

$$(+)(-) = -$$

$$(-)(+) = -$$

Dividing Integers

Divide the numbers and follow the rules below:

$$\begin{array}{c} (+) \div (+) = (+) \\ (-) \div (-) = (+) \end{array}$$

$$\begin{array}{c} (+) \div (-) = (-) \\ (-) \div (+) = (-) \end{array}$$

$$\begin{array}{c} (+) \div (+) = (+) \\ (-) \div (-) = (+) \end{array}$$

$$\begin{array}{c} (+) \div (-) = (-) \\ (-) \div (+) = (-) \end{array}$$