

December 10th, 2021 **Professor: Ebou Janha** **Company: QCT OF USA**

The fundamental principles on adding, subtracting, dividing and multiplying negative and positive integers.

Adding a positive number to a negative number

When adding a positive number to a negative number, the positive number will be reduced by the quantity of the negative number.

(The order of the numbers doesn't matter)

For example (Adding 10 to -5)

$$-5 \text{ (+) } 10 = 5$$

Adding a negative number to a positive number

When adding a negative number to a positive number, the same principle applies, and the positive number will be reduced by the quantity of the negative number.

(The order of the numbers doesn't matter)

For example (Adding -5 to 10)

$$10 \text{ (+) } -5 = 5$$

Continue to page 2 for subtracting a positive number from a negative number

Subtracting a positive number from a negative number

When subtracting a positive number from a negative number, the negative number will be increased by the quantity of the positive number.

For example (Subtracting 5 from -10)

$$-10 \text{ (-) } 5 = -15$$

Subtracting a negative number from a negative number

When subtracting a negative number from a negative number, the two minus signs next to each other change to a plus sign and the positive number is reduced by the quantity of the negative number.

For example (Subtracting -5 from -10)

$$-10 \text{ (-) } -5 = -5$$

So it becomes $-10 + 5 = -5$

Continue to page three for multiplying a positive number by a negative number

Multiplying a positive number by a negative number

When multiplying a positive number by a negative number, the product becomes a negative number. (The order of the numbers doesn't matter)

For example (Multiplying 4 by -5)

$$4 \text{ (X) } -5 = -20$$

Multiplying a negative number by a positive number

When multiplying a negative number by a positive number, the product becomes a negative number. (The order of the numbers doesn't matter)

For example (Multiplying -5 by 4)

$$-5 \text{ (X) } 4 = -20$$

Multiplying a negative number by a negative number

When multiplying a negative number by a negative number, the product becomes a positive number. (The order of the numbers doesn't matter)

For example (Multiplying -5 by -4)

$$-5 \text{ (X) } -4 = 20$$

Continue to page four for dividing a positive number by a negative number

Dividing a positive number by a negative number

When dividing a positive number by a negative number, the answer becomes a negative number.

For example (Dividing 25 by -5)

$$\frac{25}{-5} = -5$$

Dividing a negative number by a positive number

When dividing a negative number by a positive number, the answer becomes a negative number.

For example (Dividing -25 by 5)

$$\frac{-25}{5} = -5$$

Dividing a negative number by a negative number

When dividing a negative number by a negative number the answer becomes a positive number.

For example (Dividing -25 by -5)

$$\frac{-25}{-5} = 5$$