# 🕂 🧀 Integer Operation Rules 💥 🔶

# **Integer Addition Rules**

When adding integers with the **same sign**, find the sum of the numbers. The answer will have the same sign as the original numbers.

### 3 + 7 = 10

The answer is **positive** because both numbers are positive.

### -5 + (-6) = -11

The answer is **negative** because both numbers are negative.

When adding integers with **different signs**, find the difference of the numbers. The answer will have the same sign as the number with the larger absolute value.

## <u>-2</u> + 18 = 16

The difference of 18 and 2 is 16. The answer is **positive** because 18 has the larger absolute value.

## 4 + (-10) = -6

The difference of 10 and 4 is 6. The answer is **negative** because –10 has the larger absolute value.

# **Integer Subtraction Rules**

When subtracting integers, it's the same as **adding** the **opposite**. So, you can change a subtraction problem into an addition problem.

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-9 + (-4) = -13

Since the signs are the same, find the sum. The answer is **negative** because both numbers are negative. -2 - (-7) → -2 + 7

Then use the same rules as adding integers.

### -2 + 7 = 5

Since the signs are different, find the difference. The difference of 7 and 2 is 5. The answer is **positive** because 7 has the larger absolute value.

# **Integer Multiplication and Division Rules**

When multiplying or dividing two integers with the **same sign**, the answer will be **positive**.

-4 × (-10) = 40 15 ÷ 3 = 5 When multiplying or dividing two integers with **different signs**, the answer will be **negative**.

## $-3 \times 7 = -21$ 54 ÷ (-9) = -6

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