

Multiplication and Division of Integers

You multiply or divide integers just as you do whole numbers, except you must keep track of the signs. To multiply or divide signed integers, always multiply or divide the absolute values and use these rules to determine the sign of the answer.

When you multiply two integers with the **same signs**, the result is always **positive**. Just multiply the absolute values and make the answer positive.

Positive x positive = positive
Negative x negative = positive

When you multiply two integers with **different signs**, the result is always **negative**. Just multiply the absolute values and make the answer negative.

Positive x negative = negative
Negative x positive = negative

When you divide two integers with the **same sign**, the result is always **positive**. Just divide the absolute values and make the answer positive.

Positive ÷ positive = positive
Negative ÷ negative = positive

When you divide two integers with **different signs**, the result is always **negative**. Just divide the absolute values and make the answer negative.

Positive ÷ negative = negative
Negative ÷ positive = negative

