

MULTIPLYING & DIVIDING SIGNED NUMBERS

Multiplication Rules

Factor A	Factor B	Product
(+) Positive	(+) Positive	(+) Positive
(-) Negative	(-) Negative	(+) Positive
(+) Positive	(-) Negative	(-) Negative
(-) Negative	(+) Positive	(-) Negative

Division Rules

Dividend	Divisor	Quotient
(+) Positive	(+) Positive	(+) Positive
(-) Negative	(-) Negative	(+) Positive
(+) Positive	(-) Negative	(-) Negative
(-) Negative	(+) Positive	(-) Negative

The Golden Rules:

- If the signs are the **same**, the result is always **positive**.
- If the signs are **different**, the result is always **negative**.

Educational Reference Tool & Mathematics Fundamentals