

Multiplying Positives and Negatives

Positive x Positive = Positive ($5 \times 5 = 25$)

Positive x Negative = Negative ($5 \times -5 = -25$)

Negative x Negative = Positive ($-5 \times -5 = 25$)

Number of Negative Factors	Sign of the Product	
2	positive	← even number of negative factors
3	negative	← odd number of negative factors
4	positive	← even number of negative factors
5	negative	← odd number of negative factors

$$4 \times -2 \times -2 \times -2 = -32$$

If the number of negative factors is **even**, the product is **positive**.

If the number of negative factors is **odd**, the product is **negative**.