Multiplication of integers

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We can find the product of any two integers using the repeated addition method.

Multiplication of Integers Rules

- The product of a Positive Integer and a Negative Integer is negative.
 Examples: 4 × (-6) = (-24)
- The product of a Negative Integer and a Positive Integer is negative.
 Examples: (-4) × 8 = (-32)
- The product of two Positive Integers is positive.

Examples: 5 × 10 = 505

• The product of two Negative Integers is always positive.

Example: (-9) × (-5) = +45

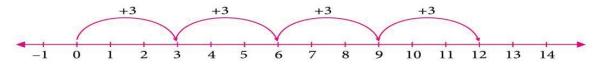
Let us understand with some examples:

Example: Find the value of $(+3) \times (+4)$

Solution: $= (+3) \times 4$

$$= (+3) + (+3) + (+3) + (+3) = (+12)$$
 or 12

On the number line, $(+3) \times (+4)$ means moving to the right of zero 4 times in steps of 3.



Example: Find $(-3) \times (+4)$

Solution: = $(-3) \times 4$

$$= (-3) + (-3) + (-3) + (-3) = (-12)$$

 $(-3) \times (+4)$ means moving to the left of zero 4 times in steps of 3.

