

Reteaching Page

9.6 – Multiplying Integers

To multiply integers use the rule.

Factors with the same signs result in a positive product!

Factors with different signs result in a negative product!

$4 * 4 = 16$ → the signs are the same so the product is positive.

$(-4) * (-4) = 16$ → the signs are the same so the product is positive.

$(-4) * 4 = -16$ → the signs are different so the product is negative.

$4 * (-4) = -16$ → the signs are different so the product is negative.

Use the rules to tell whether the product of each multiplication problem will be (+) or (-).

(+) $5 * 9$

_____ $(-6) * 5$

_____ $3 * (-7)$

_____ $(-8) * (-3)$

Find the product:

_____ $= (-5) * (-2)$

_____ $= 4 * (-6)$

_____ $= (-9) * 3$

_____ $= (-7) * (-2)$

Evaluate $-3n$ when $n = 6$

Rewrite the problem using substitution. $-3 * 6 =$ _____

Find the product using the rules. $-3 * 6 =$ _____ → $3 * 6 = -18$ → different signs make a negative product.

Evaluate $-5n$ for each given value of n .

_____ $n = 4$ → rewrite the problem using substitution. _____ → Find the product using the rules.

_____ $n = -7$ → rewrite the problem using substitution. _____ → Find the product using the rules.

_____ $n = -3$ → rewrite the problem using substitution. _____ → Find the product using the rules.

_____ $n = 5$ → rewrite the problem using substitution. _____ → Find the product using the rules.

Did you know that the rules that we use to solve problems are called algorithms? (Al - go - ri - thems)

A popular algorithm in my classroom is the “Stoney Method”.