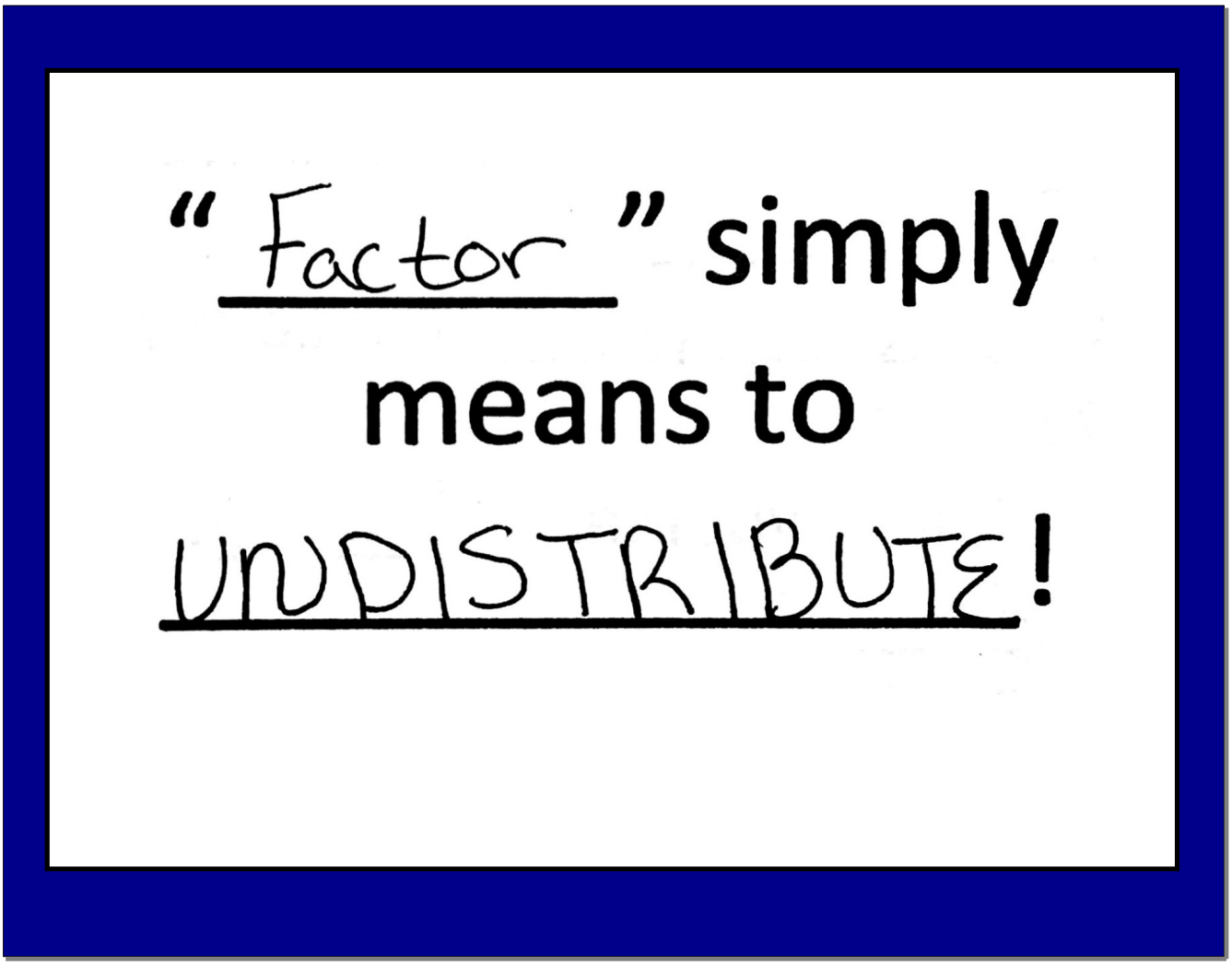

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Greatest Common Factor (GCF)

Steps:

1. Factor each term down to prime numbers Ex: 1, 2, 3, 5, 7, 11, 13, 17 . . .
2. Find the Common factors
3. Pull out the common factors
4. Ask yourself "Whats left?"
5. Set up factors as GCF (what's left?)

- If the leading coefficient is negative you MUST pull out the negative with the GCF. Watch out for the sign changes!

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Example:

$4n^3m^2 + n^3$

$2 \cdot 2nnnmm + nnn$

$n^3(4m^2 + 1)$

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Example:

$-3r + 3r^4pq^4$

$-3 \cdot 1r + 3 \cdot 1rrrpqqqq$

$-3r(1 - 1r^3pq^4)$

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Example:

$-12r^6 + 8r^7 - 12r^9$

$-2\cdot2\cdot3rrrrrr+2\cdot2\cdot2rrrrrrr-2\cdot2\cdot3rrrrrrrrr$

$-4r^6(3-2r+3r^3)$

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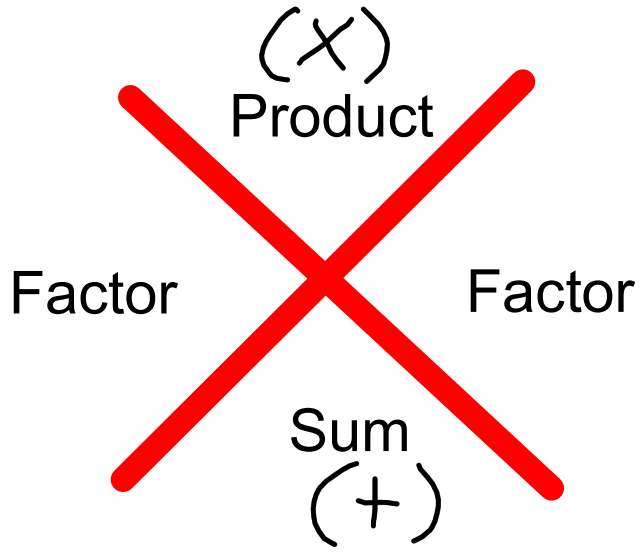
DIAMOND PUZZLES

PUZZLE THAT MAKES YOU MULTIPLY & ADD FACTORS



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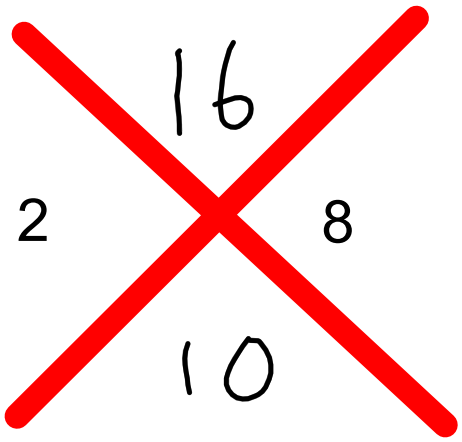
Example:



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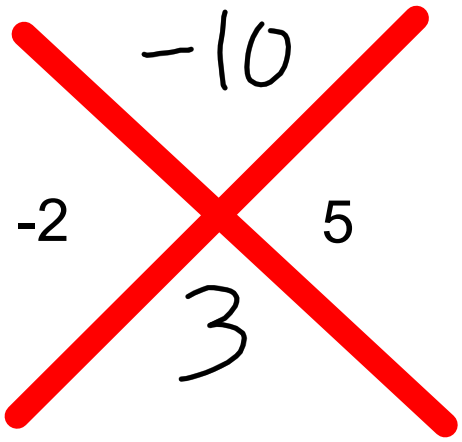

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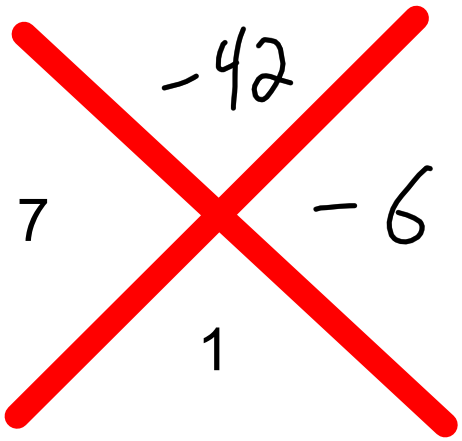

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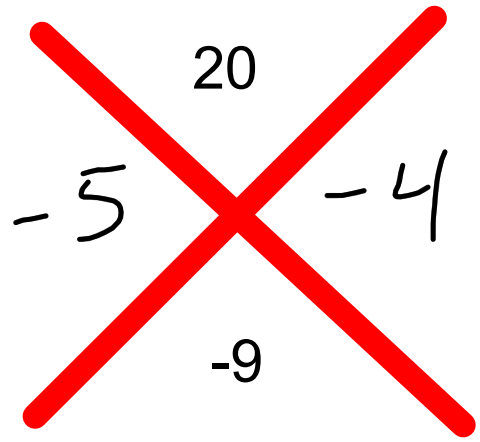

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