

Evaluating Arithmetic Expressions Exercises.

1.- $2 + 3 * 5$

2.- $(2 + 3) * 5$

3.- $4 + 9 / 3 * 5$

4.- $5 + 2 ^ 4 - 1$

Answers.

1.-

$$2 + 3 * 5$$

= {Applying * because higher precedence}

$$2 + 15$$

= {Applying +}

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2.-

$$(2 + 3) * 5$$

= {Applying + because parentheses grouping goes with higher precedence}

$$5 * 5$$

= {Applying *}

25

3.-

$$4 + 9 / 3 * 5$$

= { / and * have the same precedence, but / is more to the left so it goes first }

$$4 + 3 * 5$$

= {Applying * because it has higher precedence}

$$4 + 15$$

= {Applying +}

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4.-

$$5 + 2 ^ 4 - 1$$

= {Applying ^, due to higher precedence}

$$5 + 16 - 1$$

= {+ and - have the same precedence, but + is more to the left so it goes first}

$$21 - 1$$

= {Applying - }

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