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| When you have more than one operation in a math problem, you must solve it following the correct ORDER OF OPERATIONS. |

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| http://www.studyzone.org/mtestprep/math8/b/images/BD14565_.gifCopy the problem over exactly as it is written | http://www.studyzone.org/mtestprep/math8/b/images/Operations.gif |
| http://www.studyzone.org/mtestprep/math8/b/images/BD14565_.gifGo through each level of operations |

|  |  |  |  |
| --- | --- | --- | --- |
| *P*arentheses |  |  |  |
|  | *E*xponents |  |  |
|  |  | *M*ultiply or *D*ivide |  |
|  |  |  | *A*dd or *S*ubtract |

|  |  |
| --- | --- |
| http://www.studyzone.org/mtestprep/math8/b/images/BD14565_.gif Do the operations **within each level** from **left-to-right.** | http://www.studyzone.org/mtestprep/math8/b/images/school_desk_opening_md_clr_15544.gif |
| http://www.studyzone.org/mtestprep/math8/b/images/BD14565_.gif Write the answer **directly below** the operation sign. |
| http://www.studyzone.org/mtestprep/math8/b/images/BD14565_.gif Do not ***'re-use'*** any numbers |
| http://www.studyzone.org/mtestprep/math8/b/images/BD14565_.gif Continue until all the operations are completed |

It is always helpful to make up a phrase (called an acronym) using the first letters of each step in the order of operations that will help you remember it . A very popular one is: Please Excuse My Dear Aunt Sally.

Sample Problems

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| **3 + 4 \* 6 = ?** | | |
| *M*ultiply or *D*ivide |  | 3 + 4  6 = |
| *A*dd or *S*ubtract |  | 3 + 24 = |
| ***Answer:*** |  | ***27*** |

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| --- | --- | --- | --- |
| **15 - 3  2 + 8 = ?** | | | |
| *M*ultiply or *D*ivide |  | 15 - 3  2 + 8 = | *Remember, when doing an operation more than once in a problem, you need to work from left-to-right* |
| *A*dd or *S*ubtract |  | 15 - 6 + 8 = |
| *A*dd or *S*ubtract |  | 9 + 8 = |
| ***Answer:*** |  | ***17*** |

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| --- | --- | --- | --- |
| **8 + 3(6 + 3) = ?** | | | |
| *P*arentheses |  | 8 + 3(6 + 3)= | *Parentheses  also mean to multiply, so after doing the operation inside the parentheses, we need put an \* in.* |
| *M*ultiply or *D*ivide |  | 8 + 3 \* 9 = |
| *A*dd or *S*ubtract |  | 8 + 27 = |
| ***Answer:*** |  | ***35*** |

|  |  |  |  |
| --- | --- | --- | --- |
| **52 + 4 - 2(6 + 5) = ?** | | | |
| *P*arentheses |  | 52 + 4 - 2(6 + 5) = |  |
| *E*xponents |  | 52  + 4 - 2 \* 11 = |
| *M*ultiply or *D*ivide |  | 25 + 4 - 2 \* 11 = |
| *A*dd or *S*ubtract |  | 25 + 4 - 22 = |
| *A*dd or *S*ubtract |  | 29 - 22 = |
| ***Answer:*** |  | ***7*** |