This key should allow you to understand why you choose the option you did (beyond just getting a question right or wrong). More instructions on how to use this key can be found here.

If you have a suggestion to make the keys better, please fill out the short survey here.

Note: This key is auto-generated and may contain issues and/or errors. The keys are reviewed after each exam to ensure grading is done accurately. If there are issues (like duplicate options), they are noted in the offline gradebook. The keys are a work-in-progress to give students as many resources to improve as possible.

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1. Simplify the expression below and choose the interval the simplification is contained within.

$$5 - 15^2 + 3 \div 8 * 10 \div 1$$

The solution is -216.250, which is option A.

   A. $[-216.25, -210.25]$

      * -216.250, this is the correct option

   B. $[226.04, 233.04]$

      230.037, which corresponds to two Order of Operations errors.

   C. $[-224.96, -216.96]$

      -219.963, which corresponds to an Order of Operations error: not reading left-to-right for multiplication/division.

   D. $[232.75, 237.75]$

      233.750, which corresponds to an Order of Operations error: multiplying by negative before squaring. For example: $(-3)^2 \neq -3^2$

   E. None of the above

      You may have gotten this by making an unanticipated error. If you got a value that is not any of the others, please let the coordinator know so they can help you figure out what happened.

General Comment: While you may remember (or were taught) PEMDAS is done in order, it is actually done as P/E/MD/AS. When we are at MD or AS, we read left to right.