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.

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

$$19 - 5^2 + 17 \div 7 * 2 \div 15$$

The solution is -5.676, which is option C.

A. [43.91, 44.27]

44.081, which corresponds to two Order of Operations errors.

B. [-6.39, -5.82]

-5.919, which corresponds to an Order of Operations error: not reading left-to-right for multiplication/division.

C. [-5.89, -5.29]

* -5.676, this is the correct option

D. [44.31, 44.75]

44.324, 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.