

Example Item 3B.3b (Grade 7)

Primary Target 3B (Content Domain EE), Secondary Target 1D (7.EE.B), Tertiary Target 3C

In February, the price of a gallon of gasoline increased by 23% from the price in January. In March, the price decreased by 11% from the price in February. In March, gas cost \$2.63 per gallon.

How much did a gallon of gasoline cost in January, in dollars? Round your answer to the nearest cent. Enter your answer in the response box.

Which equation shown can be solved to find x , the cost of gas in January?

- A. $(0.11)(0.23)x = 2.63$
- B. $(1.11)(1.23)x = 2.63$
- C. $(0.89)(1.23)x = 2.63$
- D. $(1.11)(0.77)x = 2.63$

Rubric: (2 points) The student enters the correct cost of a gallon of gas (2.40) and selects the correct equation (C).
(1 point) The student does one of these parts correctly.

Response Type: Equation/numeric and multiple choice, single correct response

Note: Current functionality doesn't allow for mixing equation/numeric and multiple choice, so in the meantime the first part could be made multiple choice.