**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Arithmetic with Polynomials & Rational Expressions (A.APR.1)**

The diagram represents a right rectangular prism with dimensions labeled as algebraic expressions.



Which of these expressions represents the volume of the prism?

Select all that apply.

|  |  |  |
| --- | --- | --- |
| Statement | Yes or No | Explain your thinking |
| 7*x* |  |  |
| 4*x*2 - 25 |  |  |
| 12*x*3- 75*x* |  |  |
| 3*x*(4*x*2 – 25) |  |  |
| (2*x* + 5)(6*x*2 – 15*x*) |  |  |
| 12*x*3 + 60*x*3 + 75*x* |  |  |
| 12*x*3 - 30*x*3 + 10*x* – 25 |  |  |

Source:

<https://assessmentresource.org/wp-content/uploads/2019/07/Integrated_Math_2_EOY_Item_Set.pdf>

Integrated Math II EOY 2015, Item M40286