

Quiz 1 Study Guide

Use your notes to answer the following questions.

Define the vocabulary terms

1. Expression: Math phrase containing numbers, variables, or operators.
2. Equation: Contains 2 math expressions set equal to each other.
3. Variable: A letter representing an unknown.
4. Coefficient: A number in front of (multiplying) a variable.

Simplify the following expressions:

5. $5 + (4 - 2)^2 \div 4$

$5 + (2)^2 \div 4$
 $5 + 4 \div 4$
 $5 + 1 = 6$

PEMDAS

6. $\frac{3}{4} - \frac{1}{5} \div \frac{2}{3}$

$\frac{3}{4} - \frac{1}{5} \cdot \frac{3}{2}$

$(\frac{5}{5}) \cdot \frac{3}{4} - \frac{3}{10} \cdot (\frac{2}{2})$ LCD = 20

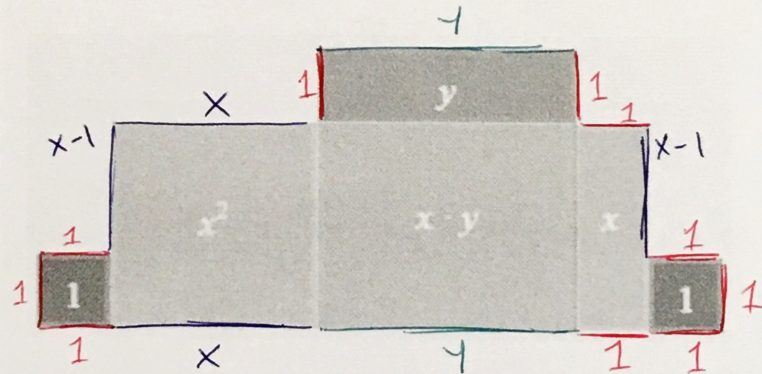
$\frac{15}{20} - \frac{6}{20} = \frac{9}{20}$

7. Simplify the expression.

$-5xy + 4x - 3xy + 2y - (-9x) + 7y$

$-8xy + 13x + 9y$

8. Find the perimeter of this shape.



$x-1 + x + x + x-1 + y + y + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1$

$4x - 2 + 2y + 10$

$4x + 2y + 8$

What grade do you think you will get on this quiz? A⁺ Why? Because I studied!