Combining Like terms

Launch-6th grade review

Which expression is equivalent to 5y + 2y + 6x + 2y - x?

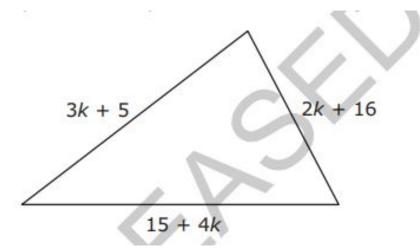
- A 5x + 6y
- B 5x + 7y
- C = 5x + 9y
- D 7x + 7y

Micah and three friends bought a total of 4 bags of pretzels and 4 drinks at the snack stand. If a bag of pretzels costs x dollars, and a drink costs y dollars, what expression could you write to show how much the friends spent in all?

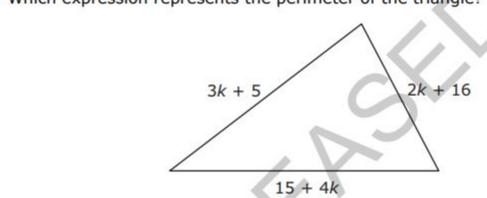
Use the math you already know to solve the problem.

a. Suppose each friend bought 1 bag of pretzels and 1 drink. Write an expression to show how much they spent in all.

b. Suppose instead that one friend bought all 4 bags of pretzels and another friend bought all 4 drinks. Write an expression that shows the total cost. Write an expression to represent the perimeter of the triangle



Which expression represents the perimeter of the triangle?



A 9k + 36

В

D

10k + 25

C 20k + 25

24k + 36

Parts of an expression

3x + 4

Terms: parts of an expression that are separated by + or - signs

Like terms:

- · Terms with the same variable
- Variable with the same exponent
- Coefficients do not have to be the same
- Constants (numbers without variables) are like terms

Like Terms	Unlike terms

To simplify an expression identify then combine like terms Examples:

2.
$$2x^2 - 4 + 2xy + 2 + xy$$

3.
$$4m-2n+3+2m-3-3n$$

The dimensions of a rectangle are divided into two parts. The image is not drawn to 4. scale.

Which expression represents the perimeter of the whole rectangle?

B 4x + 8y

C 2x + 2y