Simplifying Algebraic Expressions - Day 2

- combine only LIKE TERMS
- remember when adding or subtracting fractions, need a common denominator

Perimeter - the distance around a polygon; need to add all of the side lengths.

Simplify the expression.

1) $\frac{1}{4}(a + 2b) + \frac{-2}{3}(4a + \overline{1}b)$

$\frac{1}{4} \cdot \frac{a}{1} + \frac{1}{4} \cdot \frac{2b}{1} + \frac{-2}{3} \cdot \frac{4a}{1} + \frac{-2}{3} \cdot \frac{-1b}{1}$

$\frac{1a}{4} + \frac{1b}{2} + \frac{-8a}{3} + \frac{2b}{3}$
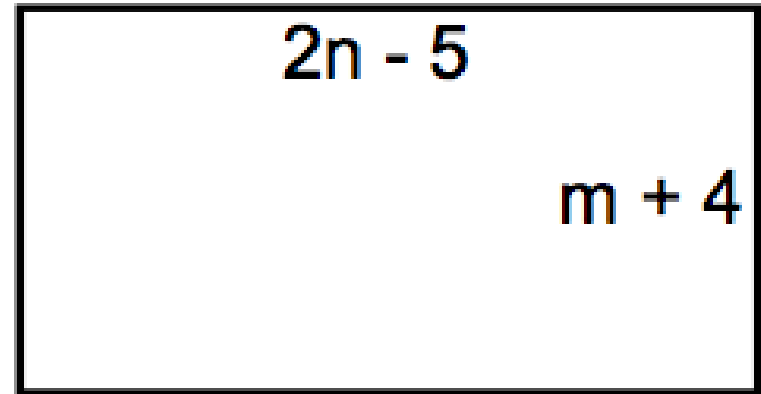
$\frac{1a}{4} + \frac{-8a}{3} + \frac{1b}{2} + \frac{2b}{3}$

$\frac{3a}{12} + \frac{-32a}{12} + \frac{3b}{6} + \frac{4b}{6}$

$\frac{-29a}{12} + \frac{7b}{6}$

Write an expression for the perimeter.

$$2n - 5$$

$$m + 4$$

$2n-5 + 2n-5 + m+4 + m+4$

$4n + 2m - 10 + 8$

$4n + 2m - 2$