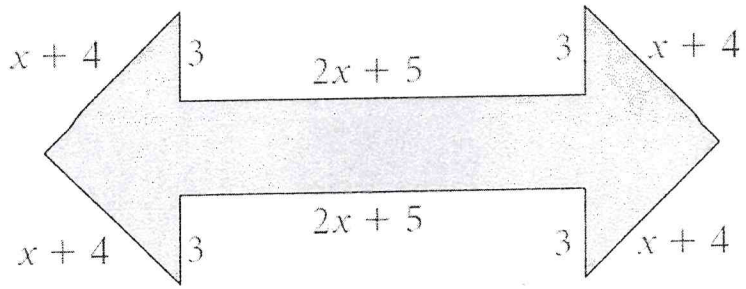
ALG 1 Bellwork Sept 19, 2014 Fri

1. **Geometry** Write an expression for the perimeter of the figure below. Simplify the expression.




2. There are 1760 yards in a mile. Write an equation for the number of miles in an unknown number of yards. Define your variables.

Simplify.

3. $4 - 2(4c - 8b) + 6b - 7 + 5(c - 3b) - 7b$

Simplify.

4. $9w^2x - wx^2 + 3xw^2 - 7w^2x^2 + 11x^2w - 9x^2w^2 + w^2x$

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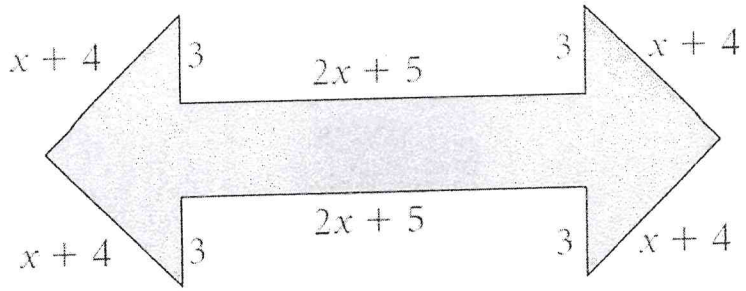
1. **Geometry** Write an expression for the perimeter of the figure below. Simplify the expression.




$4(x+4) + 2(2x+5) + 4(3)$

$4x+16 + 4x+10+12$

$\boxed{8x+38}$

2. There are 1760 yards in a mile. Write an equation for the number of miles in an unknown number of yards. Define your variables.

m = # miles
y = # yards

$\boxed{m = \frac{y}{1760}}$

Simplify.

3. $4 - 2(4c - 8b) + 6b - 7 + 5(c - 3b) - 7b$

$4 - 8c + 16b + 6b - 7 + 5c - 15b - 7b$

Constants: $4 - 7 = -3$

c terms: $-8c + 5c = -3c$

b terms: $16b + 6b - 15b - 7b = 0$

$\boxed{-3c - 3}$

Simplify.

4. $9w^2x - wx^2 + 3xw^2 - 7w^2x^2 + 11x^2w - 9x^2w^2 + w^2x$

$w^2x$ terms: $9w^2x + 3w^2x + w^2x = 13w^2x$

$wx^2$ terms: $-wx^2 + 11wx^2 = 10wx^2$

$w^2x^2$ terms: $-7w^2x^2 - 9w^2x^2 = -16w^2x^2$

$\boxed{13w^2x + 10wx^2 - 16w^2x^2}$