Name: _____

1. Simplify the following algebraic expressions.

(a) $a + a + a + a$

(b) $x + x + x + x + x + x$

(c) $2m + 3m$

(d) $6n + 3n + n$

(e) $8p - 5p$

(f) $9c - 8c$

(g) $7a + 4a - 2a - 3a$

(h) $x + x + y + y + y + y$

(i) $m + n + m + n + n + m + n$

(j) $2x + 3y + 6x + 5y$

(k) $5m + 6n - 2m - 4n$

(l) $7x + 9y + 6x - y - 5y$

(m) $8a - 6a + 6b - 2a - 2b$

(n) $m + 7n + 5m - 6n - 6m - n$

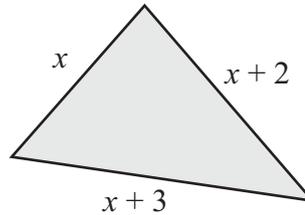(o) $7a + 6 + 2a + 5$

(p) $6m + 8 + 2m - 3$

(q) $8x + 3x + 11 - 2x - 6$

(r) $6n + 7 - n + 3n + 8$

(s) $9 + 6a + 7 - 8 - 2a$

(t) $7m + 2n + 6m - 2n - 13m$

2. Write an expression for the perimeter of this triangle.

x $x + 2$ $x + 3$

3. Simplify the following algebraic expressions.

(a) $a \times b$

(b) $6 \times m$

(c) $4 \times x \times y$
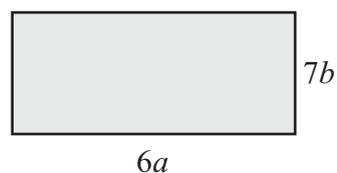
(d) $3 \times n \times 4$

(e) $2m \times n$

(f) $5a \times 6b$

(g) $4 \times x \times y$

(h) $3 \times n \times 4$

(i) $3m \times 2 \times 5n$

4. (a) Find an expression for the area of this rectangle.

$7b$

$6a$

(b) A bag of wheat weighs w kg. Write an expression for the weight of n bags of wheat.