Evaluating Algebraic Expressions

Substitute and evaluate

- replace the variables with the numbers given
- use brackets around the substituted values
- use BEDMAS to evaluate the resulting expression

Evaluate **2x + 3y** if **x = 10** and **y = 3**

$$= 2(10) + 3(3)$$

$$= 20 + 9$$

$$= 29$$

Evaluate **-2p - 5q** if **p = 1** and **q = 4**

$$= -2(1) - 5(4)$$

$$= -2 - 20$$

$$= -22$$

Evaluate $3(m + 2n) + 4$ if $m = -2$ and $n = 6$

$$= 3(-2 + 2(6)) + 4$$

$$= 3(-2 + 12) + 4$$

$$= 3(10) + 4$$

$$= 30 + 4$$

$$= 34$$

Evaluate $xy + 3x - y$ if $x = 2$ and $y = 4$

$$= (2)(4) + 3(2) - 4$$
$$= 8 + 6 - 4$$
$$= 14 - 4$$
$$= 10$$