

Unit 5 Intro To Polynomials

5.3A Distribution

We can multiply a monomial with a polynomial by distribution.

Ex. Simplify (get rid of brackets/multiply)

Distribute – multiply each term of the polynomial in the brackets by the monomial outside the brackets

a) $2(3x + 5y)$

$$= \boxed{6x + 10y}$$

b) $-3(4x - 2y)$

$$= \boxed{-12x + 6y}$$

c) $(m - 6n)3 = 3(m - 6n)$

$$= \boxed{3m - 18n}$$

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

$$= \boxed{15x + 10 + 4x}$$

$$= \boxed{19x + 10}$$

e) $5 + 6(2q - 1)$

$$= \boxed{5 + 12q - 6}$$

$$= \boxed{12q - 1}$$

f) $7a - 2(3a + 2b)$

$$= \boxed{7a - 6a - 4b}$$

$$= \boxed{a - 4b}$$

g) $3p - 5(-2p + 3q) + q$

$$= \boxed{3p + 10p - 15q + q}$$

$$= \boxed{13p - 14q}$$

h) $3(5x - y) + 4(2x + 3y)$

$$= \boxed{15x - 3y + 8x + 12y}$$

$$= \boxed{23x + 9y}$$