=4m(2p-3q)-3n(2p-3q)

**Answers** 

**Answers** 

=4m(2p-3q)-3n(2p-3q)

= (2p-3q)(4m-3n) 9.  $12ax^2 + 15ay + 16b^2x^2 + 20b^2y$  $= (2p-3q)(4m-3n) \checkmark$ 9.  $12ax^2 + 15ay + 16b^2x^2 + 20b^2y\checkmark$  $= (12ax^2 + 15ay) + (16b^2x^2 + 20b^2y)$  $= (12ax^2 + 15ay) + (16b^2x^2 + 20b^2y)$  $= (12a^{3} + 10a^{3}) + (10b^{3} + 20b^{3})^{3}$   $= 3a(4x^{2} + 5y) + 4b^{2}(4x^{2} + 5y)^{3}$   $= (4x^{2} + 5y)(3a + 4b^{2})^{3}$   $= (12a^{3} + 10a^{3}) + (10b^{3} + 20b^{3})^{3}$   $= (4x^{2} + 5y)(3a + 4b^{2})^{3}$   $= (12a^{3} + 10a^{3}) + (10b^{3} + 20b^{3})^{3}$   $= (12a^{3} + 10a^{3}) + (10b^{3} + 20b^{3})$   $= (12a^{3}$  $= 3a(4x^{2} + 5y) + 4b^{2}(4x^{2} + 5y) \checkmark$   $= (4x^{2} + 5y)(3a + 4b^{2}) \checkmark$   $10. 15a^{3}c^{2} - 12a^{3}a^{3} - 10b^{2}c^{2} + 8b^{2}a^{3} \checkmark$  $= (15a^3c^2 - 12a^3d^3) - (10b^2c^2 - 8b^2d^3)\checkmark$   $= 3a^3(5c^2 - 4d^3) - 2b^2(5c^2 - 4d^3)\checkmark$   $= (3a^3 - 2b^2)(5c^2 - 4d^3)\checkmark$  $= (15a^3c^2 - 12a^3d^3) - (10b^2c^2 - 8b^2d^3)\checkmark$   $= 3a^3(5c^2 - 4d^3) - 2b^2(5c^2 - 4d^3)\checkmark$   $= (3a^3 - 2b^2)(5c^2 - 4d^3)\checkmark$