

Section A Factorise the following

- (a) $5x + 10 = ?(x + 2)$ (b) $6x - 8 = ?(3x - 4)$
(c) $15x + 25 = ?(3x + 5)$ (d) $12x + 8 = 4(? + ?)$
(e) $18 - 6n = 6(? - ?)$ (f) $6x - 21 = 3(? - ?)$
(g) $16a + 24 = 8(? + ?)$ (h) $33x - 9 = 3(? - ?)$

Section B Factorise the following

- (a) $6x + 24$ (b) $5x - 20$ (c) $16 - 8x$
(d) $8n + 12$ (e) $12x - 14$ (f) $3a - 24$
(g) $11x - 66$ (h) $10 + 25x$ (i) $100x - 40$
(j) $50 - 40x$ (k) $6x - 30$ (l) $5y - 45$

Section C

Complete a copy of each of the following.

- (a) $x^2 + x = ?(x + 1)$ (b) $x^2 + 2x = ?(x + 2)$
(c) $2a^2 - 5a = ?(2a - 5)$ (d) $4x^2 + x = x(? + ?)$
(e) $x^2 + 4x = x(? + ?)$ (f) $xa + xb = x(? + ?)$
(g) $6x^2 + 3x = 3x(? + ?)$ (h) $4x^2 - 2ax = 2x(? - ?)$

Extension Factorise each of the following expressions.

- (a) $5x^2 + x$ (b) $a^2 + 3a$ (c) $5n^2 + 2n$
(d) $6n^2 + 3n$ (e) $5n^2 - 10n$ (f) $3x^2 + 6x$
(g) $15x^2 + 30x$ (h) $14x^2 + 21x$ (i) $16x^2 + 24x$
(j) $30x^2 - 18x$ (k) $5 + 5n^2$ (l) $10n^2 - 15$