



Question 1

Carry out the multiplication of the expressions in each of the following pairs.

- (a) 4x, 2x+ 2y+z
- (b) pq, p q+1
- (c) a b, 7a²b²
- (d) pq + qr + rp+ 1, 0
- e) a¹⁰ x (2a³²) x (9a²⁶)
- f) (2xy/3) ×(-9x²y²/10)
- g) $(-10pq^{3}/3) \times (p^{3}q/5 + 1)$
- h) (a) x (a²) x (a³) x (a⁸) x (a¹⁶)
- i) (2p + 1),(4p 3)
- j) (x 2), (3x 8)
- k) (12.5p 0.5m), (1.5l + 0.5m)
- l) (a + 3b) , (a + 5+1)
- m) (x+y+z)(x+y-z)

Question 2

The Length and Breadth of a rectangle is 2p and 2(p+q). The area of the rectangle is

- a) 4p+4pq
- b) 16pq
- c) 4p² +4pq

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Question 3

- (a) Simplify 3 (4x 5) + 9x and find its values for (i) x = 1 (ii) x = 0
- (b) Simplify $a(a^2 + a + 1) + 5$ and find its value for (i) a = 1, (ii) a = 1/2 (iii) a = -1/2.

Question 4

- (a) Add: p (p-q), q (q-r), r (r-p), 2pq+2pr+2qr
- (b) Add: 2x (z x y) and 2y (z y x)
- (c) Subtract: 3l(l 4m + 5n) from 4l(10n 3m + 2l)
- (d) Subtract: 3a (a + b + c) 2b (a b + c) from 4c (-a + b + c)
- e) Product of (x + 7y) and (7x y)
- f) Product of $(a^2 b) (a^2 + b^2)$
- g) Product $(x^2 y^2) (2x + 3y)$

