

A : Choose the correct alternatives in each of the following :

(1 × 5 = 5)

- The co-efficient of $-y^2z$ in $25xy^2z$ is
 (a) $25x$ (b) $-25x$ (c) $25xz$ (d) none of these
- The like terms in the expression $2x^2 + y^2 - 3x^2 - 2z^2x$ are
 (a) $2x^2, -3x^2$ (b) $-3x^2, 2x$ (c) $2x^2, -2z^2x$ (d) $-3x^2, -2z^2x$
- If $a = -1, b = -2$, then the value of $5a - 3b$ is
 (a) -1 (b) 1 (c) 11 (d) -11
- On solving $4x - 4 = 16$, we get
 (a) $x = 5$ (b) $x = 4$ (c) $x = 3$ (d) $x = 1$
- One book weighs 350 g and one notebook weighs 250 g. The weight of $2x$ books and y notebooks (in g) is
 (a) $350x + 250y$ (b) $700x + 250y$ (c) $350x + 500y$ (d) $700x + 500y$

B : Solve the following :

(3 × 5 = 15)

- Write algebraic expression for the following :
 (i) x more than one-third of y .
 (ii) Half a number x decreased by 3 is equal to 9.
 (iii) 5 added to thrice of x .
 (iv) The sum of angles of a triangle is equal to 180° .
- If $x = 1, y = -2, z = 3$, find the value of $x^2 - 2y - z + 4$.
- Solve the following equations :
 (i) $3x + 7 = 19$ (ii) $2x + 3 = x + 4$
- Three times a number decreased by 6 gives 12. Find the given number.
- The length of a rectangle is 2 cm more than its breadth, and its perimeter is 28 cm. Find the length and breadth of the rectangle.