

Ch - 18

Fundamental Concepts

Exercise - 18 'A'

② i)  $3n + 8 = 15$

Sum of 3 times  $n$  and 8 equals to 15

ii)  $7 - y > n$

7 decreased by  $y$  is greater than  $n$ .

iii)  $2y - n < 12$

2 times  $y$  decreased by  $n$  is less than 12.

iv)  $5 \div z = 5$

5 divided by  $z$  is equal to 5.

v)  $a + 2b > 18$

Sum of  $a$  and 2 times  $b$  is greater than 18.

vi)  $2n - 3y = 16$

Two times  $n$  decreased by 3 times  $y$  is equal to 16.

vii)  $3a - 4b > 14$

3 times a decreased by ~~four~~<sup>4</sup> times b is greater than 14.

viii)  $b + 7a < 21$

Sum of b and 7 times a is less than 21.

ix)  $(16 + 2a) - n > 25$

Sum of 16 and 2 times a decreased by n is greater than 25.

x)  $(3n + 12) - y < 3a$

Sum of 3 times n and 12 decreased by y is less than 3 times a.

### Exercise - 18 'B'

(3) i) 16 is a constant and y is a variable, but 16y is variable. False True

ii)  $5n$  has two terms: 5 and n. False

iii) The expression  $5 + n$  has two terms 5 and n. True

iv) The expression  $2n^2 + n$  is a trinomial. False

v)  $2n^2 + bn + c$  is a trinomial. True

vi)  $8 \times ab$  is a binomial. False



vii)  $P + ab$  is a binomial. True

viii)  $m^3 - 5my + 6n + 7$  is a polynomial. True

ix)  $m^3 - 5my + 6n + 7$  is a multipolynomial. True

x) The coefficient of  $n$  in  $5n$  is  $5n$ . False

xi) The coefficient of  $ab$  in  $-ab$  is  $-1$ . True

xii) The coefficient of  $y$  in  $-3my$  is  $-3$ . False

5) i)  $xy$  and  $-yn$  are like terms. True

ii)  $m^2y$  and  $-y^2n$  are like terms. False

iii)  $a$  and  $-a$  are like terms. True

iv)  $-6a$  and  $2ab$  are unlike terms. False

v)  $5$  and  $5n$  are like terms. False

vi)  $3my$  and  $4myz$  are unlike terms. True

2) write down the coefficient of  $n$  in:

i)  $n \rightarrow 1$

ii)  $-n \rightarrow -1$

iii)  $-3n \rightarrow -3$

iv)  $-5an \rightarrow -5a$

v)  $\frac{3}{2}ny \rightarrow \frac{3}{2}y$

vi)  $\frac{an}{y} \rightarrow \frac{a}{y}$