THEME-3

W 16.7.21

Ch-18 Fundamental concepts

Constant - A symbol having a fixed numerical value is called a constant. Eg - 7, 19

Variable - A symbol which takes various numerical values is called variable. Eg - x, y

1. i) ~~x+8 => x+8=4~~

ii) ~~5 - x = y~~

iii) ~~The sum of 2 and~~

Ex - 18 (A)

Q1) i) $8 + 8x = y$

ii) $x - 5 = y$

iii) $2 + x => y$

iv) $x + y =< 24$

v) $15 \times m = 3n$

vi) $8 \times y = 3x$

vii) $95 \div 30 = p$

viii) $3x - z = y$

ix) $x \times 12 = 5z$

x) $x \times 12 => 5z$

xi) $x \times 12 =< 52$

xii) $45 - 3z = y$

xiii) $8x \div y = 2z$

xiv) $5x - 7y = 8z$

xv) $5x - 7y = 8z$

22) i) $3x + 8 = 15$

ans. 3 times x plus 8 gives 15

ii) $7 - y > x$

ans. 7 minus 9 is greater than x.

iii) $2y - x \leq 21$

ans. 2y subtracted from 2y is less than 21

iv) $5 \div z = 5$

ans 5 divided z gives 5

v) $a + 2b \geq 18$

ans The sum of a and 2b is greater than 18

vi) $2x - 3y = 16$

ans 3y subtracted from 2x gives 16.

vii) $3a - 4b > 14$

ans. 4b subtracted from 3a is greater than 14

viii) $b + 7a < 21$

ans The sum of b and 7a is less than 21.

11) (16+2a) − x > 25

Ans. x subtracted from the sum of 16 and 2a is greater than 25

x) (3x+12) − y ≤ 3a

Ans. y subtracted from the sum of 3x+12 is less than or equal to 3a.