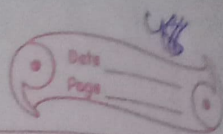


THEME-3

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

~~i) $x + 8 = y$ $x + 8 = 4$~~

~~ii) $5 - x = y$~~

~~iii) The sum of 2 and~~

Ex - 10 (A)

Q1) i) $8 + 8x = y$ | ix) $x \times 12 = 5z$

ii) $x - 5 = y$ | x) $x \times 12 = > 5z$

iii) $2 + x = > y$ | xi) $x \times 12 = < 5z$

• iv) $x + y = < 2z$ | xii) $45 - 3z = y$

v) $15x + m = 3n$ | xiii) $8x + y = 2z$

vi) $8xy = 3x$ | xiv) $5x - 7y = 8z$

vii) $9b + 30 = p$ | xv) $5x - 7y = 8z$

viii) $3x + z = y$

$$2) i) 3x + 8 = 15$$

ans. 3 times x plus 8 ^{gives} 15

$$ii) 7 - y > x$$

ans. 7 ~~minus~~ minus y is ^{2 more} greater than x .

$$iii) 2y - x < 21$$

ans. ~~x~~ ^{x} $2y$ subtracted from $2y$ is ^{less} greater than 21

$$iv) 5 \div z = 5$$

ans. 5 divided z gives 5

$$v) a + 2b > 18$$

ans. ~~The~~ 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} ~~$3a$~~ is greater than 14

$$viii) b + 7a < 21$$

ans. The sum of b and $7a$ is ^{less} ~~greater~~ than 21.

11) Terms $(16+2a) - x > 25$

ans. ~~16~~ 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 $3a$.

or