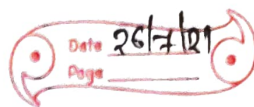


# Algebra

ch-18 Fundamental concepts

EX 18(A)



i) Express each of the following statements in algebraic form:

i) The sum of 8 and  $x$  is equal to  $y$ .  $x+8=y$

ii)  $x$  decreased by 5 is equal to  $y$ .  $x-5=y$

iii) The sum of 2 and  $x$  is greater than  $y$ .  $x+2 > y$

iv) The sum of  $x$  and  $y$  is less than 24.  $x+y < 24$

v) 15 multiplied by  $n$  gives  $3n$ .  $n \times 15 = 3n$

vi) Product of 8 and  $y$  is equal to  $3x$ .  $y \times 8 = 3x$

vii) 30 divided by  $b$  is equal to  $p$ .  $b \div 30 = p$

viii)  $z$  decreased by  $3x$  is equal to  $y$ .  $z-3x=y$

ix) 12 times of  $x$  is equal to  $5z$ .  $x \times 12 = 5z$

x) 12 times of  $x$  is greater than  $5z$ .  $x \times 12 > 5z$

xi) 12 times of  $x$  is less than  $5z$ .  $x \times 12 < 5z$

xii) 32 subtracted from 45 is equal to  $y$ .  $32-45=y$

xiii)  $8x$  divided by  $y$  is equal to  $2z$ .  $y \div 8x = 2z$

xiv)  $7y$  subtracted from  $45$  is equal to  $y$ .

$$7y - 45 = y$$

xv)  $7y$  decreased by  $5x$  gives  $8z$ .  $7y - 5x = 8z$

2) For each of the following algebraic

expressions write a suitable statement

in words:

i)  $3x + 8 = 15 + 8$  added to  $3x$  gives  $15$ . is equal to

ii)  $7 - y > x - y$  subtracted by  $7$  is greater than  $x$

iii)  $2y - x < 12 - x$  subtracted by  $2y$  is less than  $12$

iv)  $5 \div z = 5 - z$  divided by  $5$  is equal to  $5$

v)  $a + 2b > 18$  added to  $2b$  is greater than  $18$

vi)  $2x - 3y = 16$  subtracted by  $3y$  is equal to  $16$

vii)  $3a - 4b > 14$  subtracted by  $4b$  is greater than  $14$

viii)  $b + 7a < 21$  added to  $7a$  is less than  $21$

ix)  $(16 + 2a) - x > 25$  added to  $16$  and then subtracted by  $x$  is greater than  $25$

x)  $(3x + 12) - y < 3a$  - 3x added to 12 and then  
subtracted by y is  
less than 3a