27.7.21

CH - 18

FUNDAMENTAL CONCEPTS (18-A)

1. Express each of the following statements in algebraic form:

i) The Sum of 8 and x is equal to Y. $8+x=Y$

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

iii) The Sum of 2 and x is greater than Y. $2+x>Y$

iv) The Sum of x and Y is less than 24. $x+Y<24$

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

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

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

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

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

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

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

xii) 3z subtracted from 45 is equal to Y. $45-3z=Y$

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

xiv) 7y subtracted from 5x gives 8z. $5x-7y=8z$

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) $3x+8=15$: The sum of $3x$ and 8 is equal to 15.

ii) $7-y>x$: 7 decreased by y is greater than x.

iii) $2y-x<12$: $2y$ decreased by x is less than 12.

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

v) $a+2b>18$: a increased by $2b$ is greater than 18.

vi) $2x-3y=16$: $2x$ decreased by $3y$ is equal to 16.

vii) $3a-4b>14$: $3a$ decreased by $4b$ is greater than 14.

viii) $b+7a<21$: b increased by $7a$ is less than 21.

ix) $(16+2a) \div x > 25$: The sum of 16 and $2a$ decreased by x is greater than 25.

x) $(3x+12)-y<3a$: The sum of $3x$ and 12 : decreased by y is less than $3a$.