Exercise 18(A)

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

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

Ans- $8 + x = y$

ii) x decreased by 5 is equal to y.

Ans- $x - 5 = y$

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

Ans- $2 + x > y$

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

Ans- $x + y < 24$

v) 15 multiplied by m gives 3n.

Ans- $15m = 3n$

vi) Product of 8 and y is equal to 3x.

Ans- $8y = 3x$

vii) 30 divided by b is equal to p.

Ans- $\frac{30}{b} = p$

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

Ans- $z - 3x = y$

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

Ans- $12x = 5z$

x) 12 times of x is greater than 5z.

Ans- $12x > 5z$

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

Ans- $12x < 5z$

xii) 3z subtracted from 45 is equal to y.

Ans- $45 - 3z = y$

xiii) 8x divided by y is equal to 2z.

Ans- $8y = 2z$

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

Ans- $5x - 7y = 8z$

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

Ans- $7y - 5x = 8z$

2. For each of the following algebraic expressions, write a suitable statement in words.

i) $3x + 8 = 15$

Ans- The sum of 3 times x and 8 is equal to 15.

ii) $7 - y > x$

Ans- 7 decreased by y is greater than x.

iii) $2y - x < 12$

Ans- 2y decreased by x is less than 12.

iv) $5 \div z = 5$

Ans- 5 divided by z is equal to 5.

v) $a + 2b > 18$

Ans- a increased by 2b is greater than 18.

vi) $2x - 3y = 16$

Ans- 2x decreased by 3y is equal to 16.

vii) $3a - 4b > 14$

Ans- 3a decreased by 4b is greater than 14.

viii) $b + 7a < 21$

Ans- b increased by 7a is less than 21.

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

Ans- The sum of 16 and 2a decreased by x is greater than 25.

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

Ans- The sum of 3x and 12 is decreased by is less than 3a.