

Ex-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 .

$$\frac{30}{b} = p \quad \text{or} \quad 30 \div b = p$$

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

$$3x - z = y$$

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

$$12 \times x = 5z$$

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

$$12x > 5z$$

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

$$12x < 5z$$

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

$$45 - 3z = y$$

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

$$\frac{8x}{y} = 2z \text{ or } 8x \div y = 2z$$

(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) $3x + 8 = 15$

Ans- The sum of $3x$ and 8 gives 15 .

(ii) $7 - y > x$

Ans- ~~7~~ 7 decreased by y is greater than x .

(iii) $2y - x < 12$

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

(iv) $5 \div z = 5$

Ans- 5 divided by z is equal to 5 .

(v) $a + 2b > 18$

Ans- The sum of a and $2b$ is less 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- The sum of b and $7a$ is less than 21.
 b increased by $7a$ is less than 21.

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

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

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

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