

$$3x - 5 = 15 \rightarrow 3 \text{ times of } x$$

3 x decreased by 5 is equal to 15

H: V
18/09/2021 EOC - 18A

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 x and y is less than 24

Ans $x + y < 24$

(iv) The sum of 2 and x is greater than y

Ans $2 + x > y$

(v) 5 multiplied by m given 3n

Ans $5 \times m \times 15 = 3n$

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

Ans $8 \times y = 3x$

2. Express each of the following statements in algebraic form.

(vii) 30 divided by b is equal to p .

$$\text{Ans} \rightarrow 30 \div b = p$$

(viii) Z decreased by $3x$ is equal to $5z$

$$Z - 3x = 5z$$

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

$$12x = 5z$$

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

$$12x > 5z$$

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

$$\text{Ans} \rightarrow 12x < 5z$$

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

$$\text{Ans} \rightarrow 45 - 3z = y$$

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

$$\text{Ans} \rightarrow 8x \div y = 2z$$

(xiv) $2y$ subtracted from $5x$ gives $8y$.

Ans ~~$2y$~~ $5x - 2y = 8y$

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

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

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

(i) $3x + 8 = 15$

Ans ~~3x~~ Sum The sum of $3x$ and 8 equal to 15

(ii) $z - y > x$

Ans ~~z~~ ~~Subtra~~ Subtracted from y greater than x

(iii) $2y - x < 12$

Ans $2y$ Subtracted from x less than 12

(iv) $5 \div 2 = 5$

Ans ~~5~~ 5 divided by 2 equal to 5

(v) $a + 2b > 18$

Ans The sum of a and $2b$ greater than 18

(vi) $2x - 3y = 16$

~~2x subtracted by 3y equal 16~~

Ans $2x$ subtracted by $3y$ equal 16

(vii) $3a - 4b > 14$

Ans $3a$ subtracted by $4b$ greater than 14

(viii) $b + 2a < 21$

Ans The sum of ~~$2a$~~ b and $2a$ less than 21

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

Ans The sum of 16 and $2a$ decrease by x greater than 25

(x) $(3x + 12) - y < 39$

Ans The sum of ~~$3x$~~ and 12 decrease by y less than 39