

VI - Mathematics Assignment No-01 - Algebra

- Q1) Write the following using numbers, literal numbers and basic arithmetic operations.
- The Sum of the numbers 5 and x
 - 4 less than the number x
 - 5 more than the number y
 - Two-fifth of a number x
 - one-third of the Sum of the numbers x and y
 - 3 less than the quotient of x and y
 - 4 more than thrice a number x
 - Number x multiplied by itself
 - 5 times a number x
 - Number y less than a number 5
- (Q2) i) Write a number which is 5 more than x
ii) A number 3 less than x , Write the number
iii) If 5 is added to x , it becomes y ,
Write y in terms of x

Q3 Write the following statements using numbers, literal numbers and arithmetic operations. State what each letter represents?

(i) The selling price of an item is equal to the sum of the cost price of the item and the profit earned.

(ii) The profit on an item is the difference between selling price and cost price.

(iii) Amount is equal to the sum of principal and interest.

(Q4) Write the number which is 5 times the product of x and y .

(Q5) Write the number which is 5 more than $\frac{1}{3}$ rd of the number x .

(Q6) Write the following using numbers, literals and signs of basic operation of, " Quotient of x by y added to the product of x and y .

(Q7) Write the following statement, using numbers, literals and signs of basic operations: '8 times a number x is y less than a number z '

(Q8) Write the following in exponential form:

(i) $a \times a \times a \times \dots$ 15 times

(ii) $5 \times x \times x \times x \times x \times y \times y \times y$

(Q9) Ram scores 60 marks in Mathematics and x marks in English. What is his total score in the two subjects?

(Q10) Write $9x^2y^2z^2$ in product form.

ANSWERS—

(Q1)(a) $(5+x)$	(Q2)	(Q6)	(Q9) $(x+60)$ marks
(b) $x-4$	(i) $(5+x)$	$\frac{x}{y} + xy$	
(c) $y+5$	(ii) $x-3$		
(d) $\frac{2}{5}x$	(iii) $y = 5+x$	(Q7)	(Q10)
(e) $\frac{1}{3}(x+y)$	(Q3)	$8x = z - y$	$9x^2 \times x^2 \times y^2 \times y^2 \times z^2 \times z^2$
(f) $\frac{x}{y} - 3$	(i) $S.P = C.P + Profit$		
(g) $3x+4$	(ii) $Profit = S.P - C.P$	(Q8)	
(h) x^2	(iii) $A = P + I$	(i) a^{15}	
(i) $5x$	(Q4) $5xy$	(ii) $5x^3y^3$	
(j) $5-y$	(Q5) $\frac{1}{3}x + 5$		