CAMBRIAN PUBLIC SCHOOL

KANKE ROAD, RANCHI

Revision Assignment

Subject: Mathematics **Class: VII**

Ch:4 – Expressions Using Letter – Numbers

1) Write algebraic expression for each of the following:
   a) 10 less than a number x.
   b) 9 more than 4 times a number y.
   c) A number decreased by a and the difference obtained is multiplied by 6.
2) Find the value of:
   a) $(10x - 5)$, when $x = 3$
   b) $(9n - 3)$, when n = 6
   c) $6(x + y) - 2y$, when $x = 5$ and y = 3.
3) Add the following expressions given below:
   a) $15x - 7y + 6$ and $-8x + 2y - 18$
   b) $(6a - 3b)$, $(8a - 2b)$ and $(-7a + 4b)$
4) Subtract the expressions given below:
   a) $8r - 4s + 16$ from $7s - r + 20$
   b) $2g - 3f$ from $4f - 5g$
5) Simplify:
   a) $6 - (2 - 6x)$
   b) $3(5a - 4b) - 10a + 9b - 6$
6) **Case Based Questions:**

Direction: Examine the following case study carefully and answer the questions that follow.

Rohan goes to a stationery shop to buy some items. The prices of these items are as under:

- Pencil ₹5 each
- Pen ₹12 each
- Eraser ₹3 each
- Ruler ₹10 each

a) If Rohan buys $\boldsymbol{x}$ pencils and **y** rulers, what is the total amount he pays to the shopkeeper?

i) ₹$15(x + y)$ ii) ₹$(5x + 10y)$

iii) $5x + 12y$ iv) $3x + 10y$

b) If he buys **p** erasers and **q** pens, what is the total amount he pays to the shopkeeper?

i) ₹$(3p + 12q)$ ii) ₹$15(p + q)$

iii) ₹$(5p + 10q)$ iv) ₹$(3p + 10q)$

c) Rohan buys **t** pencils and **v** erasers, and gives ₹100 to the shopkeeper. What amount does the shopkeeper return to Rohan?

i) ₹$(100 - 5t + 3v)$ ii) ₹$(100 - 3t + 5v)$

iii) ₹$(100 - 5t - 3v)$ iv) ₹$(100 - 3t - 5v)$

d) The shopkeeper offers to give one eraser free on the purchase of every 5 pencils. If Rohan buys 20 pencils and 5 erasers, how much money does he pay to the shopkeeper?

i) ₹103 ii) ₹106

iii) ₹112 iv) ₹115

****