KV MUZAFFARPUR FS

AUTUMN BREAK

HOLIDAY HOMEWORK

CLASS VIII C & E

Q1. Classify the following polynomials as monomials, binomials, trinomials. Which polynomials do not fit in any of these categories?

 $x+y$, 1000, $x+x^2+x^3+x^4$, $7+y+5x$, $2y-3y^2$, $2y-3y^2+4y^3$, $5x-4y+3xy$, $4z-15z^2$, $ab+bc+cd+da$, pqr , $2p+3q$

Q2.Add the following

  (i) $ab-bc$, $bc-ca$ and $ca-ab$
  (ii) $a-b+ab$, $b-c+bc$ and $c-a+ac$
  (iii) l^2+m^2 , m^2+n^2 , n^2+l^2 and $2lm+2mn+2nl$

Q3. Subtract $4a-7ab+3b+12$ from $12a-9ab+5b-3$

Q4. Subtract $3xy+5yz-7zx$ from $5xy-2yz-2zx+10xyz$.

Q5. Find the product of the following pairs:-

  (i) 4 , $7p$
  (ii) $-5p$, $9p$
  (iii) $8p$, 0

Q6. Find the areas of rectangles with the following pairs of monomials as their lengths and breaths respectively.

  (i) $10m$ & $5n$
  (ii) $20x^2$ & $5y^2$
  (iii) $3mnp$ & $4np$
  (iv) $7abc$ & $12bcd$

Q7.Obtain the volume of rectangular boxes with the following length , breath and height respectively.

  (i) $5a \cdot 3a^2 , 7a^4$
  (ii)   2p, 4q, 8r
  (iii)   a, 7b, 8c
  (iv)   xy , yz, zx

Q8. Obtain the product of the following:-

  (i)   ab ,bc ,ca
  (ii) $a , -a^2, a^3$
  (iii) $8, 4y, 8y^2, 12y^4$
  (iv)   A , 2b 3c 4d

Q9. A flooring tile has the shape of a parallelogram whose base is 24 cm and the corresponding height is 10 cm. How many such tiles are required to cover a floor of area 1080 m².

Q10. The area of a trapezium is 34 cm² and the length of one of the parallel sides is 10 cm and its height is 4cm . Find the length of the other parallel side.