Holiday Assignments

English Junior Section

Mathematics 05 (Algebraic expressions) Grade 8 English Medium

(I) Simplify the algebraic expressions given below :

(a) x + 2x +3x

(b) 5m + 6n - 3n – 7m

(c) 4x + 2y + x -2x

(d) m + 3m – 2m

(e) 4x – 8x +6x

(f) 3a + 2b – 2a – 3b + 5

(g) 5x + 2y – 2x + 3y

(h) 3p – q – 2p + 3q

(i) 7x + 3y – 2x - y

(j) 2b – 5a +7b – 2

(II) Simplify the following :

(a) 3 (x + 2)

(b) 4 (10x – 5)

(c) 4 (8x – 4y)

(d) -7 (4 – 3x)

(e) 8 (-x + 4)

(f) 3 (4x + 2y + 6)

(g) -2 (7a -2c +3 -5)

(h) 2 (2x +3y +8) + 5

(i) 4 (5+6x)

(j) 7 (7 – 4x)

(k) -5 (x+6)

(l) -10 (4m – 2n)

(m) -9 (7 + 4a)

(n) 4 (3a – 2b – 4c)

(o) -2 (4a – 2b + c)

(p) 10 (y + 2x – 4x)

(III) Simplify :

(a) (3a-4b) + (5a+6b) + (9a+3b)

(b) (8x-5y+z) - (x-6y) - (x-5y-7z)

(c) (4p-11q+6) + (2p-9q-5)

(d) 6x + 4(x+2) - (3x+5)

(e) 2x (3x -6) – 4(x–3)

(f) $(2y^2 + 3y + 2) – (y^2 – y +4)$

(g) $10n (n + 2m) + 4n^2 – 2mn$

(h) (4l + 3m – 2n) + (5l +4m – 2n)

(i) 8x – 4 (x+4)

(IV) **<u>If x = 5, y = -4, z = 3. Find the value of the below algebraic expressions</u>**

(a) 2x + 3y – z

(b) –x (2y + 3z)

(c) xy + yz + 3z

(d) xy + yz + xz

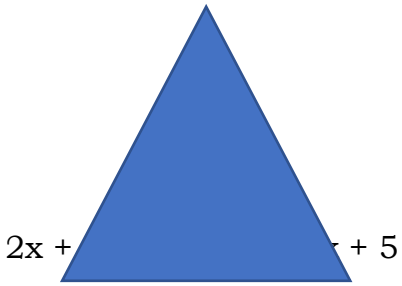
(e) 12x (x + y)

(f) (x + y) (x – z)

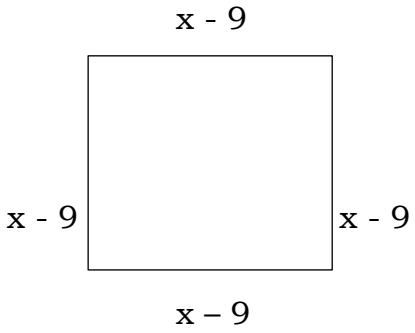
(g) (2x + 3y) (4x – y + 8)

(V) **<u>Find the perimeter of the below figure</u> :**

(a)



(b)



(c)