



Name: \_\_\_\_\_

Date :

Class: 7 Div: \_\_\_\_\_

Subject: Math

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Ch 10 – Algebraic Expressions

**Q.1) Classify into monomials, binomials and trinomials.**

a)  $2y - 8z$

b)  $5q$

c)  $3x + 5y - xy$

d)  $3p + 8q$

e)  $15t$

f)  $7x - 2y + xy$

**Q.2) Identify the terms and their factors in the following expressions. Show the terms and factors by tree diagrams.**

a)  $x - 3$

b)  $4 + 2x + x^2$

c)  $y - y^3$

**Q.3) State whether a given pair of terms is of like or unlike terms.**

a) 4, 4000

b)  $-7x, \frac{3}{7}x$

c)  $-39x, -39y$

d)  $10xy, 46yx$

e)  $9m^2p, 9mp^2$

f)  $5xz, 5x^2z$

**Q.4) If  $a = 2$ ,  $b = -2$ , find the value of:**

a)  $3a^2b + 3ab^2 + ab$

b)  $4a - 7b$

c)  $\frac{4a}{4} - 3b + 2$

d)  $a^2 - b^2$

e)  $2a + 3b$

f)  $2a - 2b + 3 - 5 + a$

**Q.5) Simplify the expression and find its value when  $a = 5$  and  $b = -3$ .**

$$3(a^2 + ab) - 5 + ab$$

**Q.6) What should be the value of  $a$  if the value of  $7x^2 + 2x - a$  equals to 6, when  $x = 0$ ?**

**Q.7) Simplify these expressions and find their values if  $x = 4$ ,  $a = -1$ ,  $b = -2$ .**

a)  $3a + 5 - 8a + 1$

b)  $10 - 3b - 4 - 5b$

c)  $2a - 2b - 4 - 5 + a$

**Q.8) Simplify the expressions and find the value if  $x$  is equal to 3.**

a)  $x + 3 + 6(x - 5)$

b)  $5(x - 2) + 5x - 3$

c)  $7x + 6(x - 2)$

d)  $3(2x - 1) + 4x + 15$

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