



NAME OF THE STUDENT :

CLASS : 8 SEC : SUB: MATHEMATICS



DATE : 15.10 .17

TOPIC: ALGEBRAIC EXPRESSIONS & IDENTITIES

WORKSHEET NO:01

S.NO	OBJECTIVE TYPE OF QUESTIONS	ANSWER
1	$\frac{3}{x} + \frac{5}{x^2}$ is a polynomial ( TRUE / FALSE )	
2	Find the value of $(3x+5)(3x-5)$ .	
3	Multiply $(3m^2 - 5m + 6)$ and $(-4m^2)$	
4	If $(2x - 5)(2x + 3) = 4x^2 - 4x - ab$ , then what is the value of $ab$ ?	
5	Find the volume of a cuboid of length $4x$ units, breadth $3y^2$ units and the height $2x^2 y$ units	
6	What should be added to $-7xyz$ to get $2xyz$ ?	

S.NO	ANSWER THE FOLLOWING QUESTIONS
7	Simplify : $4a^2 - 8a(a - 1) - 7a(1 + 5a) + a(a - 1)$
8	The perimeter of a triangle is $(17p^2 - 8p + 9)$ and two of its sides are $(2p^2 - p + 1)$ and $(11p^2 - 3p + 5)$ . Find the third side of the triangle.
9	Subtract : $(5m + 6n)^2$ from $(6n - 5m)^2$
10	Find the values of the following using suitable identities a) $96^2$ b) $107^2$ c) $10.2 \times 10.4$ d) $18 \times 23$ e) $(3.7)^2 - (1.3)^2$
11	Simplify : $(2ab + 3bc)^2 - (2ab - 3bc)^2$
12	Evaluate the following using suitable identities a) $\left[5x - \frac{1}{4}\right] \left[5x - \frac{1}{4}\right]$ b) $(x^2 - 4)(x^2 + 4)$ c) $(5x - 7)(-3 + 5x)$ d) $\left(\frac{94 \times 94 - 6 \times 6}{94 - 6}\right)$
13	Find the product of $(a + 3)(a - 3)(a^2 + 9)$
14	Find the product of $3cd^2, 2c^2d^2, -4c^3d$ and verify the result for $c = 1, d = -1$
15	Find the value of $x$ , if $12x = 34^2 - 26^2$