<u>INTERNATIONAL INDIAN SCHOOL</u> <u>BURAIDAH</u>

Worksheet For The Academic Year 2023-24

CLASS: VIII SUBJECT: Mathematics DATE: 29/10/2023 LESSON-9 Algebraic Expressions & Identities

1) Write the coefficient of: $-2xy$, $5x^2$, xyz
2) $7xy - 5x$ has terms in it.
3) The numerical factor of a term is called its .
4) An expression having only one term is called a
5) Add:
a) $9xy - 3yz + 2zx$ and $2xz + 9xy - 4y$
b) $7xy + 5yz - 3xz$ and $4yz + 9xz - 4xy$
6) Subtract:
a) $6x^2 - 5y^2 + 7y - 4$ and $8x^2 - 5xy + 9y^2 + 6x - 4y$
b) $5x^2 - 4y^2 + 6y - 3$ and $7x^2 - 4xy + 8y^2 + 5x - 3y$
7) Find the product of:
a) 5x and -4xyz b) 2x, 5y and 7z
c) $4xy$, $5x^2y^2$ and $6x^3y^3$ d) $-3x$ and $(5y+2)$
8) Simplify and evaluate:
a) $x (x-3) + 2$ if $x = 1$
b) $3y(2y-7) - 3(y-4) - 63$ if $y = -2$
9) Add:
$5m (3-m)$ and $6m^2-13m$
10) Subtract:
3pq (p-q) from $2pq (p+q)$
11) Find the product of:
a) $(3a + 4b)$ and $(2a + 3b)$ b) $(x - 4)$ and $(2x + 3)$
c) $(x-y)$ and $(3x+5y)$ d) $(a+7)$ and $(b-5)$
e) $(a^2 + 2b^2)$ and $(5a - 3b)$
12) Simplify:
a) $(a+7)(a^2+3a+5)$ b) $(a+b)(2a-3b+c)-(2a-3b)c$
13) Find the area of a rectangle whose length and breadth are respectively 4mm
and 3np.
14) Find the volume of a rectangular box whose dimensions are $2xy$, x^2y and
$2xy^2$.

15) Simplify: (a+b+c)(a-b-c)