



INDIAN SCHOOL AL WADI AL KABIR

Class VII, Mathematics

WORKSHEET- ALGEBRAIC EXPRESSIONS (MCQ)

Multiple Choice questions

Q.1.	The sum of the terms $3mn$, $-5mn$, $8mn$ and $-4mn$						
A	$2mn$	B	$-1mn$	C	$4mn$	D	$11mn-8mn$
Q.2.	The value of $3x^2 + 5x$ if $x = -2$						
A	-2	B	2	C	22	D	12
Q.3.	The coefficient of x in the expression $2-x+y$ is						
A	2	B	1	C	-1	D	0
Q.4.	Which of the following pairs of terms is a pair of like terms?						
A	$17xy, 14yx$	B	m^2p, mp^2	C	$6xz, 12x^2z^2$	D	$-13x, -13y$
Q.5.	Simplify: $z^2 + 11z^2 - 5z - 11z^2 + 5z$						
A	z^2	B	$-z^2$	C	$5z$	D	$-5z$
Q.6.	If $A = 9pq - 3p^2 + 4q^2$, $B = 7pq + 2p^2 - 3q^2$, find $A-B$						
A	$2pq - p^2 - 7q^2$	B	$16pq - p^2 + q^2$	C	$2pq - 5p^2 + 7q^2$	D	$2pq + 2p^2 - q^2$
Q.7.	The sum of $(7x + 2y)$ and $(-3x - 4y)$ is						
A	$-10x - 2y$	B	$10x - 6y$	C	$-4x + 2y$	D	$4x - 2y$
Q.8.	Factors of $-5x^2y^2z$ are						
A	$-5 \times x \times y \times z$	B	$-5 \times x^2 \times y \times z$	C	$-5 \times x \times x \times y \times y \times z$	D	$-5 \times x \times y \times z^2$
Q.9.	Find the value of the expression $5a + 2(a-b)$ when $a = 1$, $b = -2$.						
A	-3	B	0	C	-6	D	11
Q.10.	The coefficient of a^2 in the sum of $-5a^2 + 8ab$, $-3a^2$, $14a^2 - 11ab$ is						
A	-5	B	6	C	-3	D	-22

FILL IN THE BLANKS

Q11	The value of the expression $-7pq + p + 4$ when $p = 2$ and $q = 2$ is _____
Q12	Sum of $3a^2 - 7ab - b^2, -3a^2 + 4ab + 3b^2$ is _____
Q13	The value of $a^2 - b^2$ when $a = -2$ and $b = 3$ is _____
Q14	When $24ab - 10b - 18a$ is subtracted from $30ab + 12b + 14a$, the result obtained is _____
Q15	The perimeter of a triangle with sides $3x-7, 2x+5$ and $-x+11$ is _____

CASE STUDY:

Ravi, Reshma and Ritvik organized a Charity fete to support orphans and old age home. Ravi collected ₹ $2a^2 + 3ab + 7$, Reshma collected ₹ $3a^2 - 11$, and Ritvik collected ₹ $7a^2 + 9ab + 9$.

Q 16



Find the total money collected for donation?

A	₹ $12a^2 - 6$	B	₹ $12a^2 + 12ab + 5$	C	₹ $2a^2 - 6ab + 11$	D	₹ $42a^2 + 6ab + 20$
Q 17	The expression obtained for the money collected for donation can be called as						
A	Monomial	B	Binomial	C	Trinomial	D	Equation
Q 18	How much more money did Reshma collect than Ravi?						
A	₹ $12a^2 + 5ab - 7$	B	₹ $-a^2 + 5ab - 7$	C	₹ $a^2 - 3ab - 18$	D	₹ $9a^2 - 4ab - 9$

Q 19	The coefficient of a in the expression $3a^2 - 2ab - 11$ is							
	A	$-2b$	B	2	C	$-2a$	D	-11
Q 20	If $a = 10, b = 5$, then the amount collected by Ritvik is							
	A	₹ 1752	B	₹ 1159	C	₹ 1652	D	₹ 1784

ANSWERS

1.	A	2.	B	3.	C	4.	A
5.	A	6.	C	7.	D	8.	C
9.	D	10.	B	11.	-22	12.	$-3ab + 2b^2$
13.	-5	14.	$6ab + 22b + 32a$	15.	$4x+9$	16.	B
17.	C	18.	C	19.	A	20.	B