

INDIAN SCHOOL AL WADI AL KABIR

Class VIII, Mathematics
WORKSHEET- ALGEBRAIC EXPRESSIONS AND IDENTITIES (MCQ)

Multiple Choice questions Q.1. p subtracted from 9q 9q + pВ p-9q \mathbf{C} 9 - pqD 9q - pQ.2. Which is the like term as $24a^2bc$? $13 \times 8a \times 2b \times c$ $3 \times 8 \times a \times b \times c$ $3 \times 8 \times a \times b \times b$ $8 \times 3 \times a \times b$ C D A $\times c$ Q.3. The product of (px + qy)(ax - by) is $apx^2 + pbxy + qyax - qy^2b$ $apx^2 - pbxy - qyax - qy^2b$ $apx^2 - pbxy$ $apx^2 + pbxy$ С В D A $+ qyax - qy^2b$ $+ qyax + qy^2b$ Q.4. If the length and breadth of the rectangle are (x + 9y) and (x + 3y), then its area is $x^2 - 12xy + 27y^2$ B $x^2 + 2xy + 27y^2$ C $x^2 + 12xy + 27y^2$ $x^2 + 12xy + 29y^2$ Q.5. The coefficient of y in the term $2 - \frac{1}{10}y$ is 1 В \mathbf{C} 2 Α D y 10 Q.6. In a polynomial, the exponents of the variables are always non-positive A integers В positive integers \mathbf{C} decimals D integers Q.7. Which of the following is a binomial? $6(a^2 + b)$ $6a^2 + 7b + 2c$ \mathbf{C} A $7 \times a + a$ $4a \times 3b \times 2c$ D Q8. Find using suitable identity: 497×505 \mathbf{C} D 250686 В 250485 250985 150686 Volume of a rectangular box (cuboid) with length = $2pa^2$, breadth = $3p^2q$ and height = 9paq is Q.9. $54p^4a^3q^2$ $6p^4a^3q^2$ $54p^3a^2q^2$ C $54p^4a^3$ A В D

Q.10.	Squ	Square of $9x - 7xy$ is									
	A	$81x^2 + 49x^2y^2$	В	$81x^2 - 49x^2y^2$	С	$81x^2 + 49x^2y^2 - 126x^2y$	D	$81x^2 + 49x^2y^2 - 63x^2y$			
				FILL IN THE	BLA	INKS					
Q.11.	Eva	Evaluate using suitable identities. (48) ² is									
Q.12.	The	The expansion of $\left(\frac{4x}{5} + \frac{y}{4}\right)\left(\frac{4x}{5} + \frac{3y}{4}\right)$ using suitable identity is									
Q.13.	The	The product of $-pqr$ and $p^2 + q^2 + r^2$ is									
Q.14.	The value of $181^2 - 19^2$ by using the suitable identity is										
Q.15.	The sum of $4x - 8y + 12mn$ and $-18mn - 9x - 12y$ is										
	CASE STUDY QUESTION										
								(, 1)			
	Hei	rita donated some amount friends wanted to know a hint that the value sed on the information.	ow th of th	o a blind school. The se amount donated by e expression is $(x + x)$	amo	ount of donation is repr					
Q.16.	Her gav Bas	r friends wanted to know e a hint that the value	ow th of th , ans	o a blind school. The se amount donated by e expression is $(x + x)$ wer the question.	amove here $\frac{1}{x}$ is	ount of donation is repr					
Q.16.	Her gav Bas	r friends wanted to know a hint that the value sed on the information	ow th of th , ans	o a blind school. The se amount donated by e expression is $(x + x)$ wer the question.	amove here $\frac{1}{x}$ is	ount of donation is repr					
Q.16.	Her gav Bas	r friends wanted to know a hint that the value sed on the information are Mathematical concept	ow the of the answer of use	a blind school. The se amount donated by e expression is $(x + x)$ wer the question. Algebraic identities	amo her $\frac{1}{x}$ is $\frac{1}{x}$	ount of donation is reproduction. But she did not disclos ₹ 75.	ose th	e amount but just			
_	Her gav Bas	r friends wanted to know a hint that the value sed on the information. The Mathematical conception are equation.	ow the of the answer of use	a blind school. The se amount donated by e expression is $(x + x)$ wer the question. Algebraic identities	amo her $\frac{1}{x}$ is $\frac{1}{x}$	ount of donation is reproduction. But she did not disclos ₹ 75.	ose th	e amount but just			
_	The A	e Mathematical conceptions algebraic identity use	ot use	a blind school. The se amount donated by e expression is $(x + x)$ wer the question. Algebraic identities calculate the amount	amove here $\frac{1}{x}$ is is $\frac{1}{x}$ consider a domination of the constant $\frac{1}{x}$ is $\frac{1}{x}$.	ount of donation is reproduct the second se	D D	Polynomial			

Q.19.	Th	The amount donated by Sarita is						
	A	₹ 5120	В	₹ 56230	С	₹ 5623	D	₹ 5625
Q.20.	If $\left(x + \frac{1}{x}\right)$ is 8 then the value of $\left(x^2 + \frac{1}{x^2}\right)$ is							
	A	64	В	66	С	68	D	62

ANSWERS

Q1.	D	Q2.	A	Q3.	A	Q4.	С
Q5.	В	Q6.	В	Q7.	D	Q8.	С
Q9.	A	Q10.	С	Q11.	2304	Q12.	$\frac{16}{25}x^2 + \frac{4}{5}xy + \frac{3}{16}y^2$
Q13.	$-p^3qr - pq^3r - pqr^3$	Q14.	32400	Q15.	−5 <i>x</i> − 20 <i>y</i> − 6 <i>mn</i>	Q16.	В
Q17.	A	Q18.	В	Q19.	С	Q20.	D