

INDIAN SCHOOL AL WADI AL KABIR

Class VIII, Mathematics
WORKSHEET-FACTORISATION (MCQ)

Multiple Choice questions The common factor of x^2y^2 and x^3y^3 is Q.1. X^2Y^2 C D Α X^3Y^3 X^2Y^3 X^3Y^2 . The factorisation of $12a^2b + 15ab^2$ is Q.2. $3ab^2 (4a + 5b)$ $3a^2b^2$ (4a + 5b). $3a^{2}b$ (4a + 5b) C Α 3ab (4a + 5b)Q.3. The factorisation of $4y^2 - 12y + 9$ is $(2y - 3)^2$ $(3y - 2)^2$ $(3y + 2)^2$ $(2y + 3)^2$ Α D The value of 99² is Q.4. $90^2 + 2 \times 90 \times 9 +$ $90^2 - 2 \times 90 \times 9 +$ $90^2 + 9^2$ Α none of these. 9². If $x^2 - x - 42 = (x + k)(x + 6)$, then k =Q.5. Α **-**6 7 D -7 The factorisation of $10x^2 - 18x^3 + 14x^4$ is Q.6. $2x^2(7x^2 - 9x + 5)$ $2x^3 (7x^2 - 9x +$ $2x(7x^2-9x+5)$ $2(7x^2-9x+5)$ Α 5) Which of the following is quotient obtained on dividing -18 xyz^2 by -3 xz? Q.7. 6 xy^2 Α 6yz -6yz D 6 x y Q8. On dividing 26xy $(x +5) (y -4) \div 13xy (y -4)$ 2y(x+5)2(x+5)C В D 2y 3x The quotient of $12a^8b^8 \div (-4a^6b^6)$ is Q9

	A	3a²b²	В	3a²b	С	3ab²	D	-3a²b²				
Q10	The	The common factor of 36p ² q ³ x ⁴ , 48pq ³ x ² and 54p ³ q ³ x ⁴ is										
	A	36pq ³ x ²	В	6pq ³ x ²	С	54pq ³ x ²	D	48pq ³ x ²				
	FILL IN THE BLANKS											
Q11	6m-	6m— 42 can be factorized as										
Q12	The	The factors of 16x ⁴ – y ⁴										
Q13	The common factor of 2x and y is											
Q14	The factors of 6xy – 4y + 6 – 9x are											
Q15	Factors of p ² +7p+12 is											
Q 16	their capital depending up on the variable expenditure. The capital of two partners together is given by $y^2 - 5y - 36$ which is the product of their individual share factors. On the basis of above information, answer the following questions If the value of y is 5000, then the capital of their business is											
Q = 0	A	2,59,75,964	В	2,49,85,964	С	2,49,75,964	D	2,49,75,694				
Q 17	The factors of $y^2 - 5y - 36$											
	A	(y +9) (y -4)	В	(y -9) (y+4)	С	(y - 9) (y -4)	D	(y +9) (y+4)				
Q 18	In between Rahul shared the amount $y^2 + 3y + 1$ more, then their present capital of the business is											
	A	2y ² -2y +35	В	2y ² –2y –35	С	2y ² +2y +35	D	$2y^2 + 2y - 35$				
Q 19	The	The profit they earned is $x^2 + 18x + 81$. The factors of $x^2 + 18x + 81$.										
	A	(x +9) (x+9)	В	(x +9) (x-9)	С	(x +9) (x+2)	D	(x +3) (x+3)				
Q 20	If th	If the value of y is 2500, then the profit of their business is										
	A	62,55,061	В	62,95,061	C	62,59,061	D	62,95,661				

ANSWERS

1.	A) x ² y ²	2.	B) 3ab (4a + 5b)	3.	D) $(2y + 3)^2$	4.	A) $90^2 + 2 \times 90 \times 9 + 9^2$.
5.	D) - 7	6.	C) $2x^2(7x^2 - 9x + 5)$	7.	A) 6yz	8.	B) 2(x+5)
9.	D) -3a ² b ²	10.	B) 6pq ³ x ²	11.	6(m-7)	12.	$(4x^2+y^2)(2x+y)(2x-y)$
13.	1	14.	(2y-3) (3x-2)	15.	(p +4) (p +3)	16.	D
17.	В	18.	В	19.	A	20.	В