



INDIAN SCHOOL AL WADI AL KABIR

Class X, Mathematics REVISION WORKSHEET MCQ

27-05-2020

OBJECTIVE TYPE (1 Mark)

Q.1.	HCF of 8, 9, 25 is							
	A	8	B	9	C	25	D	1
Q.2.	LCM of the given number 'x' and 'y' where y is a multiple of 'x' is given by							
	A	x	B	y	C	xy	D	x+y
Q.3.	If $b = 3$, then any integer can be expressed as $a =$							
	A	$3q, 3q + 1, 3q + 2$	B	$3q$	C	$3q+3$	D	$3q+1$
Q.4.	The product of three consecutive positive integers is divisible by							
	A	4	B	6	C	No common factor	D	Only 1
Q.5.	The largest number that will divides 398,436 and 542 leaving remainders 7,11 and 15 respectively is							
	A	17	B	11	C	34	D	45
Q.6.	There are 312, 260 and 156 students in class X, XI and XII respectively. Buses are to be hired to take these students to a picnic. Find the maximum number of students who can sit in a bus if each bus takes equal number of students							
	A	52	B	56	C	48	D	63
Q.7.	There is a circular path around a sports field. Priya takes 18 minutes to drive one round of the field. Harish takes 12 minutes. Suppose they both start at the same point and at the same time and go in the same direction. After how many minutes will they meet ?							
	A	36 minutes	B	18 minutes	C	6 minutes	D	They will not meet
Q.8.	Express 98 as a product of its primes							
	A	$2^2 \times 7$	B	$2^2 \times 7^2$	C	2×7^2	D	$2^3 \times 7$
Q.9.	Three farmers have 490 kg, 588 kg and 882 kg of wheat respectively. Find the maximum capacity of a bag so that the wheat can be packed in exact number of bags.							
	A	98 kg	B	290 kg	C	200 kg	D	350 kg

Q10.	If $\text{HCF}(16, y) = 8$ and $\text{LCM}(16, y) = 48$, then the value of y is							
	A	24	B	16	C	8	D	48
Q11.	If $\text{LCM}(77, 99) = 693$, then $\text{HCF}(77, 99)$ is							
	A	11	B	7	C	9	D	12
Q12.	Euclid's division lemma states that for two positive integers a and b , there exist unique integer q and r such that $a = bq + r$, where r must satisfy							
	A	$a < r < b$	B	$0 < r \leq b$	C	$1 < r < b$	D	$0 \leq r < b$
Q13.	Graphically, the pair of equations $7x - y = 5$; $21x - 3y = 10$ represents two lines which are							
	A	intersecting at one point	B	parallel	C	intersecting at two points	D	coincident
Q14.	The pair of equations $x = a$ and $y = b$ graphically represents lines which are							
	A	parallel	B	intersecting at (b, a)	C	coincident	D	intersecting at (a, b)
Q15.	Asha has only ₹1 and ₹2 coins with her. If the total number of coins that she has is 50 and the amount of money with her is ₹75, then the number of ₹1 and ₹2 coins are, respectively							
	A	35 and 15	B	15 and 35	C	35 and 20	D	25 and 25
Q16.	The pair of linear equations $2x + 3y = 5$ and $4x + 6y = 10$ is							
	A	inconsistent	B	consistent	C	dependent consistent	D	none of these
Q17.	The sum of the digits of a two-digit number is 9. If 27 is added to it, the digits of the number get reversed. The number is							
	A	27	B	72	C	45	D	36
Q18.	The graph of $y = 5$ is a line parallel to the							
	A	x-axis	B	y-axis	C	both axes	D	none of these
Q19.	A pair of linear equations which has a unique solution $x = 2, y = -3$ is							
	A	$x + y = -1$; $2x - 3y = -5$	B	$2x + 5y = 11$; $4x + 10y = -22$	C	$2x - y = 1$; $3x + 2y = 0$	D	$x - 4y - 14 = 0$; $5x - y - 13 = 0$
Q20.	If $x = a, y = b$ is the solution of the pair of equations $x - y = 2$ and $x + y = 4$, then the respective values of a and b are							
	A	3,5	B	5,3	C	3,1	D	-1,-3
Q21.	On solving the following pair of linear equations: $2x - y = 2$; $5x + 2y = 14$ by substitution method, values of x and y are							
	A	2,2	B	2,-2	C	-2,2	D	2,0
Q22.	If the lines given by $3x + 2ky = 2$; $2x + 5y + 1 = 0$ are parallel, then the value of k is							
	A	$\frac{5}{4}$	B	$\frac{2}{5}$	C	$\frac{15}{4}$	D	$\frac{3}{2}$

Q23.	One equation of a pair of dependent linear equations is $-5x + 7y - 2 = 0$. The second equation can be							
	A	$10x + 14y + 4 = 0$	B	$-10x - 14y = -4$	C	$-10x + 14y = -4$	D	$10x - 14y = -4$
Q24.	The solution of the equations $x - y = 2$ and $x + y = 10$ is:							
	A	4,-6	B	-6,4	C	4,6	D	6, 4
Q25.	Half the perimeter of a rectangular room is 46 m, and its length is 6 m more than its breadth. What is the length and breadth of the room?							
	A	40m,6m	B	30m,16m	C	20m,14m	D	26m,20m
Q26.	Which of these points lie on the line $7x+8y=61$							
	A	(3,4)	B	(2,5)	C	(-3,7)	D	(3,5)
Q27.	If two positive integers a and b are written as $a = p^3q^2$ and $b = pq^3$; p, q are prime numbers, then HCF (a, b) is:							
	A	pq	B	pq^2	C	p^3q^3	D	p^2q^2
Q28.	The largest number which divides 70 and 125, leaving remainders 5 and 8, respectively, is							
	A	13	B	65	C	875	D	1750
Q29.	What is the solution of the following pair of linear equations in two variables							
	$\frac{4}{\sqrt{x}} - \frac{9}{\sqrt{y}} = -1 \qquad \frac{2}{\sqrt{x}} + \frac{3}{\sqrt{y}} = 2$							
	A	(9, 8)	B	(4, 9)	C	(9, 4)	D	(8, 9)
Q30.	If two positive integers p and q can be expressed as $p = ab^2$ and $q = a^3b$; a, b being prime numbers, then LCM (p, q) is							
	A	ab	B	a^2b^2	C	a^3b^2	D	a^3b^3

Answers	1	D	2	B	3.	A	4	B
	5	A	6	A	7	A	8	C
	9	A	10	A	11	A	12	D
	13	B	14	D	15	D	16	C
	17	D	18	A	19	D	20	C
	21	A	22	C	23	D	24	D
	25	D	26.	D	27	B	28	A
	29	B	30	C				
