ENRICH BEYOND CLASS ROOM SESSION -2

Mathematics M.M: 25 1 Hour

1.	In an examination, a student was asked to find $\frac{3}{14}$ of a certain number. By mistak he found $\frac{3}{4}$ of that number. His answer was 150 more than the correct answer. then the number is					
	i) 210	ii) 230	iii) 280	iv) 310		
2. Nine bus stops are equally spaced along a bus route. The distance from first third is 600 metre. What is the distance between first to the last stop?					(1)	
	i) 1600 m	ii) 2400 m	iii) 2700 m	iv) 1800 m		
3.	If P can run 100 m in 20 seconds and Q, in 25 sec. Then P beats Q by					
	i) 10 m	ii) 20 m	iii) 25 m	iv) 12 m		
4.	Divide ₹ 181 among A, B and C so that B may get ₹ 7 more than A and C gets ₹ 6 less than twice A's share, then shares of each are i) $A = ₹ 40 B = ₹ 57 C = ₹ 84$ ii) $A = ₹ 45 B = ₹ 52 C = ₹ 84$ iii) $A = ₹ 52 B = ₹ 45 C = ₹ 84$ iv) None of these					
5.	What percent of THIS and THAT plus THAT and THIS is THIS and THAT?				(1)	
	i) 50%	ii) 70%	iii) 90%	iv) 100%		
6.	Which of the follow	wing has the least	value?		(1)	

7. If the average of x and y is 60 and the average of y and z is 80, what is the value of z-x?

i) $1^0 - 0^1$ ii) $2^1 - 1^2$ iii) $3^2 - 2^3$ iv) $4^3 - 3^4$

	i) 60	ii) 50	iii) 40	iv) 280	
8.		ed. The volume of		along its length and a (Use $\pi = \frac{22}{7}$). iv) 2772 cm ³	(1)
9.	X is 15 years old X? i) 3	d. Y is one third old ii) 12	der. How many ye	ars ago was Y twice as old as iv) 6	(1)
10.	A milk man can	,	ouffaloes and 3 co	ws or 3 buffaloes and 6 cows iv) ₹ 1400	(1)
11.	-	_	_	area is $121 cm^2$. It is then m. The area of the rectangle	(1)
	i) 78	ii) 96	iii) 137	iv) 117	
12.	Which one among the following is wrong? i) 525252 is multiple of 3 ii) 525525 is multiple of 7 iii) unit place of 72 ⁵ is 5 iv) Unit place in the product 525 × 525 is 5.				
13.	The 25 th term in 13), is_	the sequence (1, 2) ii) (25, 49)), (2, 3), (3, 5),	(4, 7), (5, 11), (6,	(1)
14.	If 4 ⁴⁴ + 4 ⁴⁴ + i) 46	$4^{44} + 4^{44} = 4^x$ th ii) 44	$en x = \underline{\qquad}$ $iii) 48$	iv) 45	(1)
15.	$\frac{4}{5}$ of a number $\frac{4}{5}$	exceeds its $\frac{2}{3}$ by 8	. The number is		(1)
	i) 50	ii) 60	iii) 70	iv) 65	
16.	If the sum of two consecutive odd numbers is 2004, then the smaller of the two numbers could be				
	i) 1001	ii) 1003	iii) 999	iv) 1005	

17.	How many times will the wheel of a car rotates in a journey of 88 km if it is known that the diameter of the wheel is 56 cm. (Use $\pi = \frac{22}{7}$)					
18.		ii) 40000 0, then $\frac{5}{7}$ of x is _		iv) 50000	(1)	
	i) 350	ii) 70	iii) 420	iv) 250		
19.	8% of $2500 + 37%$ of $P = 348$, find the value of P.					
	i) 300	ii) 600	iii) 400	iv) None of these		
20.	If a certain number is subtracted from the numerator and added to the denominator of $\frac{9}{19}$ the new fraction is equivalent to $\frac{1}{3}$. Find the number.					
	i) 1	ii) 2	iii) 3	iv) none of these		
21.	Find the value	of k if the point P (0, 2) is equidistant	from A (3, k) and B (k, 5).	(1)	
22.	i) 3 If the median	ii) 2 of the following data	iii) 1 a, arranged in ascer	iv) 5 nding order, is 42. Then x =	(1)	
	$\overline{22, 23}, 33, 37, x + 1, x + 3, 44, 48, 51, 58$					
23.	i) 38 Equation of linis	ii) 39 ne which is parallel	iii) 41 to x – axis and pass	iv) 40 sing through the point $(0, -3)$	(1)	
	i) x + y = -3	3 ii) $x = 3$	iii) $y = -3$	iv) $y = 3$		
24.	The sum of a two digit number and the number obtained by reversing its digits is 121. If the digits differ by 3, find the number.					
	i) 47	ii) 57	iii) 67	iv) 77		
25.	If $P(A) = 2p$	0 + 3q and $P(not A)$	A) = 3p + 2q , fin	d the value of $p + q$.	(1)	

i) $\frac{3}{7}$ ii) $\frac{1}{5}$ iii) $\frac{2}{7}$ iv) $\frac{2}{5}$

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