

Maths Questions for CLAT Exam.			
CLAT Maths Quiz 47			
Directions: Read the fo	llowing Questions careful	lly and choose the right a	nswer:
1. Evaluate : 777 – ²	²⁴³ / ₄₂ × 51 – 42		
A. 538.68	B. 678.98	C. 439.93	D. 772.27
2. The difference between two numbers is 2500. When the larger number is divided by the smaller number, the quotient is 8 and the remainder is 50. The smaller number is			
A. 250	B. 280	C. 350	D, 400
3. The average of ten numbers is 7. Each number is multiplied by 12, then 6 is added to each number, and at last each number is divided by 15. The average of new set of numbers is			
A. 6	В. 9	C. 10	D. 15
4. In the year 2000, expenditure of company A was 5 million. If in year 2001, expenditure of company A was 5.23 million, then what was the percentage change in the expenditure?			
A. 5.8%	B. 4.6%	C. 4.9%	D. 6.4%
5. Rahul borrowed Rs. 830 from Mr. Lal at the rate of 12% p.a. SI for 3 years. He then added some money to the borrowed sum and lent it to Shobha for the same period at the rate of 14% p.a. interest. If Rahul gains Rs. 93.90 in the whole transaction, what amount did he add from his side?			
A. Rs. 115	B. Rs. 120	C. Rs. 125	D. Rs. 105
6. A property dealer purchases two flats for Rs. 60 lakhs. He sells one at a loss of 5% and the other at a gain 10%. He looses 10% in the entire transaction. What is the cost of each flat?			
A. Rs. 50 lakhs	B. Rs. 48 lakhs	C. Rs. 54 lakhs	D. Rs. 46 lakhs
7. A and B undertake a piece of work for Rs. 600. A alone can complete it in 6 days, while B alone can complete it in 8 days. With the help of C, then finish it in 3 days. Find B's share.			
A. Rs. 250	B. Rs. 245	C. Rs. 225	D. Rs. 260

8. A train running at 54 km/hr takes 20 sec to cross a platform and 12 sec to pass a man walking in the same direction at a speed of 6 km/hr. Find the length of the train and the platform.

A 140 m	D 100 m	C 1(F m	D 172 m
A. 140 m	B. 180 III	C. 105 III	D. 172 m

9. A group of 10 teachers which includes Jones. Rao and Anil wishes to select a committee containing is selected at random. What is the probability that the committee selected Jones and Rao, if it contains Anil?

1	1	1	1
A. $\frac{1}{36}$	B. $\frac{1}{20}$	$C\frac{1}{3}$	$D.\frac{10}{10}$

10. A plane at a height of 3125 m from the ground passed another plane which is vertically upward to the plane. If angle of elevation to these two planes from a certain point on the ground is 30° and 60° respectively, then what is the vertical distance between these two planes?

A. 605	0 m	B. 6110 m		C. 6250 m		D. 6300 m	
Correc	ct Answers:	C		-1.LZ			
	1 2	3 4	5	6 7	8	9 10	
	C C	A B	D	ВС	A	A C	
Expla	nations:						
1.							
	$777 - \frac{243}{42} \times 51 - 42$	$= 777 - \frac{243}{14} \times 17 - $	42				
	$= 777 - \frac{4131}{14} - 42 =$	777 – 295.07 – 42					
	= 777 - 337.07 = 439	9.93					
	Hence, option C is co	orrect.					
2.	Let the numbers be	'n' and 2500 + n/					
	Then, 2500 + n = 8n	+ 50 and n = 350					
	Hence, option C is co	orrect.					

3.	We know, if an operation is performed to all the numbers, then the avearge of the numbers changes accordingly. $\Rightarrow \text{Revised average} = \frac{(\text{Original average}) \times 12 + 6}{15}$ $= \frac{84 + 6}{15} = 6$ Hence, option A is correct.
4.	Expenditure in year 2000 = 5 million Expenditure in year 2001 = 5.23 million $\Rightarrow \text{Percentage change} = \frac{5.23 - 5}{4} \times 100$
	$= \frac{0.23}{5} \times 100 = 4.6\%$ Hence, option B is correct.
5.	$\frac{(830 + x) \times 14 \times 3}{100} - \frac{830 \times 12 \times 3}{100} = 93.90$ $\Rightarrow 830 \times 42 + 42x - 830 \times 36 = 9390$ $\Rightarrow 42x + 830 \times (42 - 36) = 9390$ $\Rightarrow 42x = 9390 - 4980 \Rightarrow x = \frac{4410}{42} = 105$ $\therefore \text{ Amount added = Rs. 105}$ Hence, option D is correct.
6.	Using alligation 10 -5 \setminus / -10 / \setminus C ₁ : C ₂ C ₁ and C ₂ are the cost of two flat. $\because \frac{C_1}{C_2} = \frac{-5+10}{10+10} = \frac{5}{20} = \frac{1}{2} \Rightarrow C_1 = \frac{1}{5} \times 6000000$ = Rs. 12 lakhs and C ₂ = Rs. 48 lakhs Hence, option B is correct.



10. Let the distance between planes be h and and point C is x m away from the point O.



Hence, option C is correct

