# KEJ

If  $A = \{1, 2, 3, 4, 5, 7, 8, 9\}$  and  $B = \{2, 4, 6, 7, 9\}$  then how many proper subset of  $A \cap B$  can be created

> 16 15

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- 32
- D. 31

Find the area under the curve  $f(x)=x^2+5x+2$  with the limits 0 to 1

- 3.833 A.
- 4.388
- 4.833
- 3.338 D.

If pth term of an AP is q and its qth term is p, then what will be the value of (p+q)th 3. term?

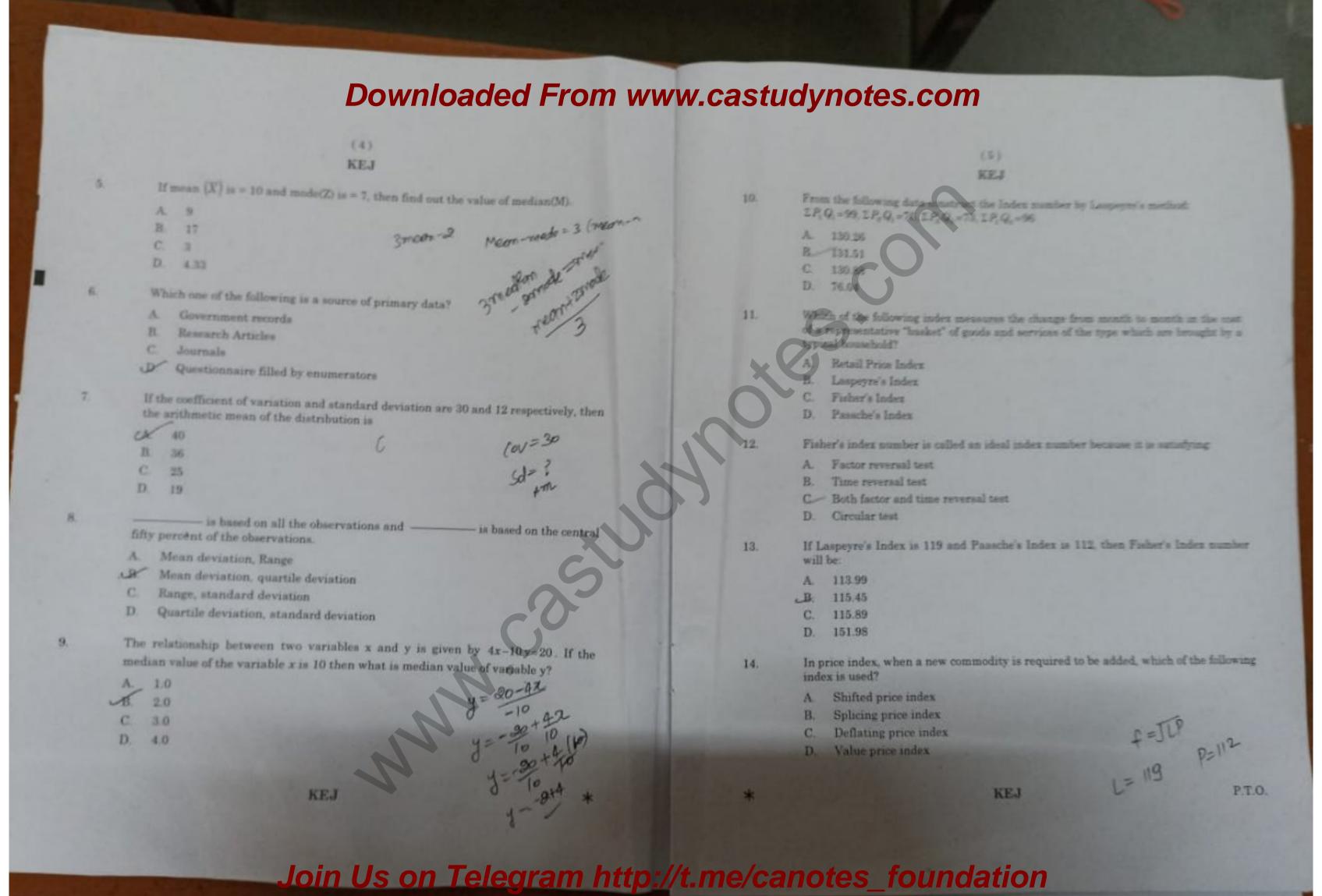
- p+q-1
- 2(p+q-1)

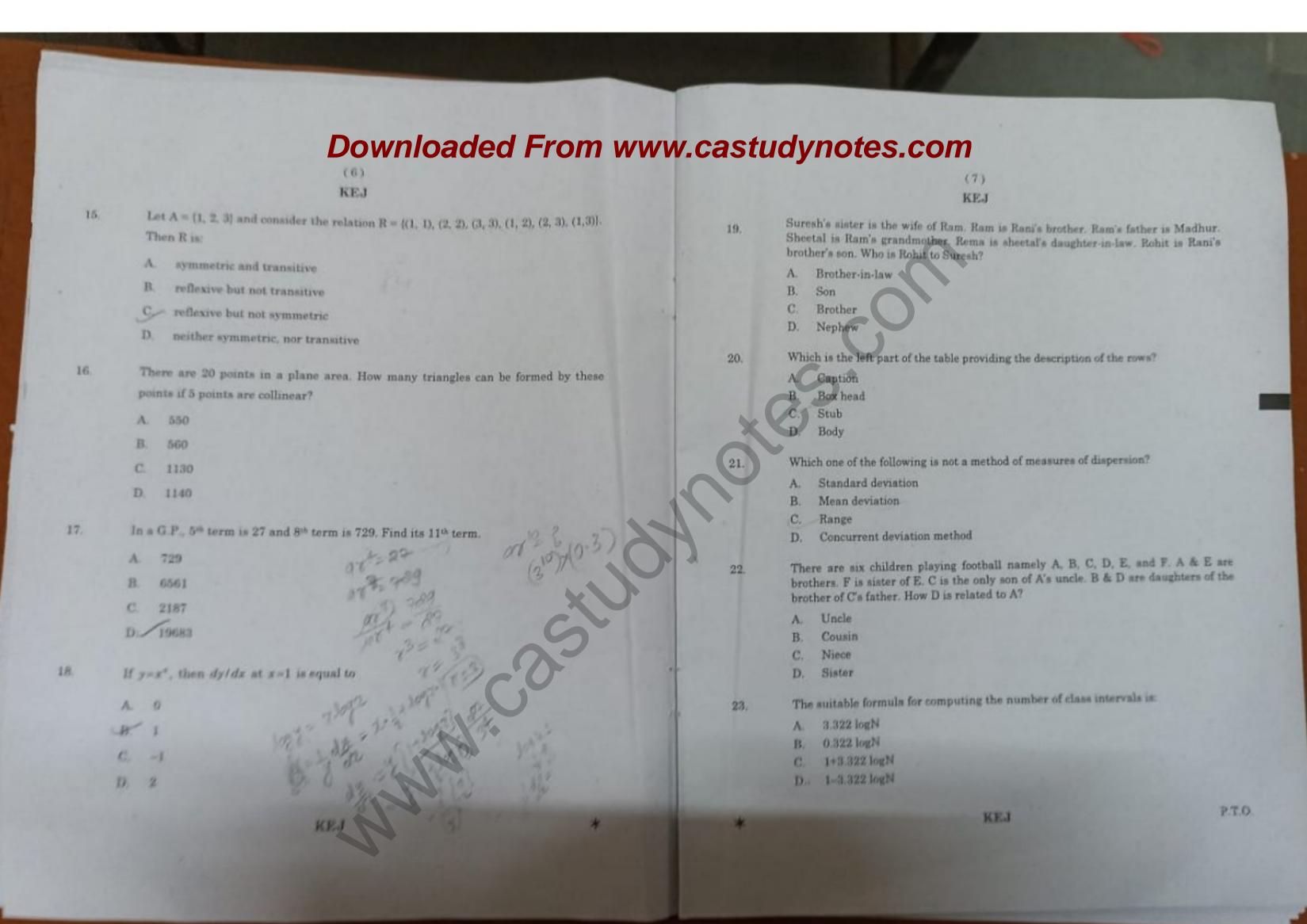
The maxima and minima of the function  $y = 2x^3 - 15x^2 + 36x + 10$  occurs respectively 4.

at

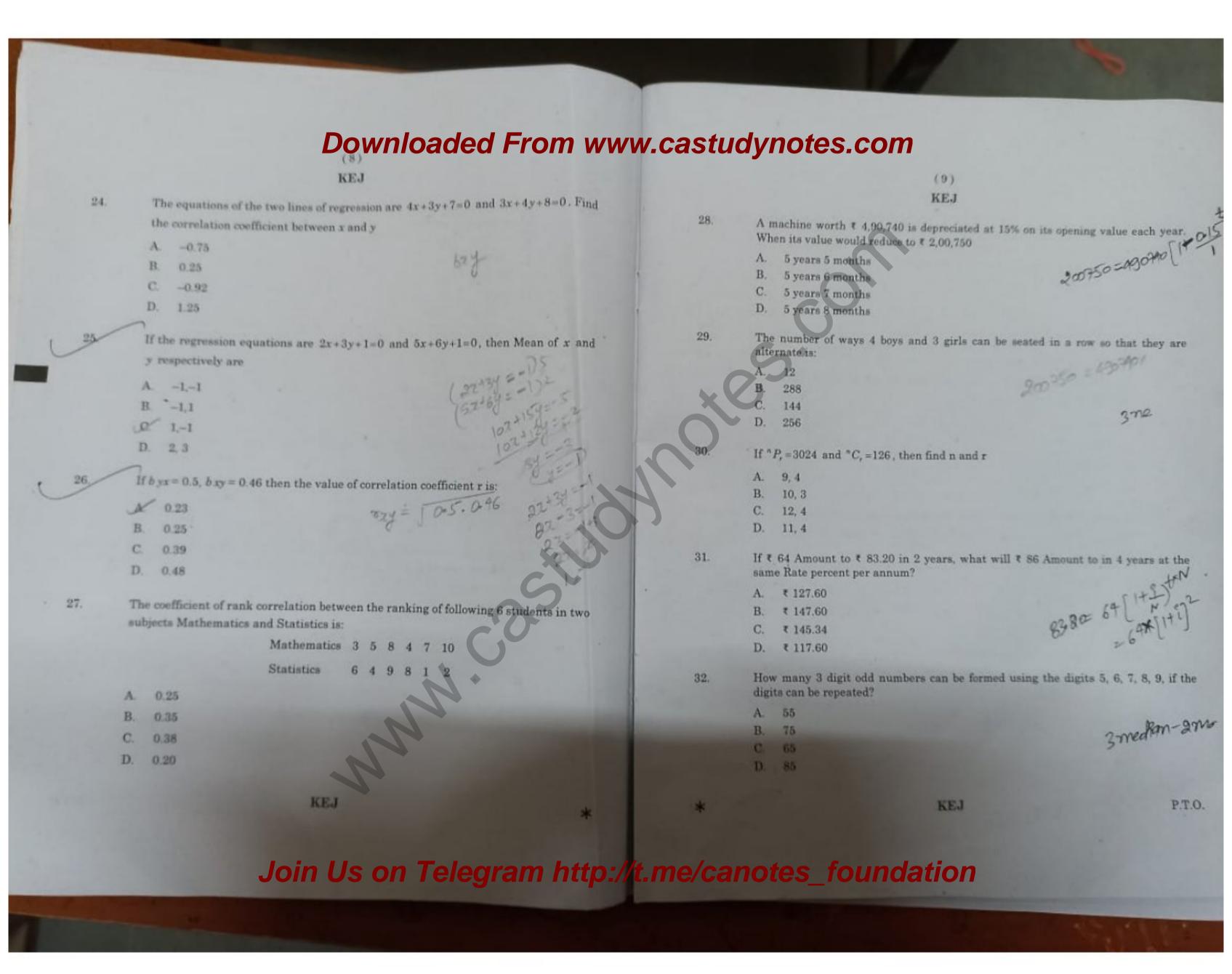
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- x=1 and x=3
- x=3 and x=2
- x=3 and x=1





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## Downloaded From www.castudynotes.com KEJ In a joint family, there are father, mether, 3 married sons and one unmarried daughter. Out of the sons, two have 2 daughters each and one has a son only. How Ekswness of Normal Distribution is 3530 A. Negative many female members are there in the family? Positive Zero D. Undefined Penraon's Correlation coefficient between x and y is: When Rani saw Vinit, she recollected that "He is the brother of my grandfather's son" How is Rani related to Vinit? Aunt Daughter Sister D. Niece Annanya is mother of Satya and Shyam is the son of Bhima. Shiva is brother of If a Poisson distribution is such that P(X=2) = P(X=3) then the variance of the Annanys. If Satys is sister of Shyam, how Bhima is related to Shiva? distribution ia Son Cousin Brother in-law D. Son-in-law The Standard Deviation of Binomial distribution is: Suman is daughter-in-law of Rakesh and sister-in-law of Rajesh Ramesh is the son 36. npq of Rakesh and only brother of Rajesh. Find the relation of Suman with Ramesh. $\sqrt{npq}$ Sister-in law np Aunt Wife KEJ Join Us on Telegram http://t.me/canotes\_foundation

Downloaded From www.castudynotes.com (13) KEJ KEJ A farmer borrowed ₹ 3600 at the rate of 15% simple interest per Annum. At the end 41. of 4 years, he cleared this account by paying ₹ 4000 and a cow. The cost of the cow is: If 'FROZEN' is decoded as 'OFAPSG'. Tick the right option that depicts 'MOLTEN' written in this way? ₹1000 OFPOMN ₹1200 OFSMPN ₹1550 OFUMPN ₹1760 D. OFUNPN How much amount is required to be invested every year so as to accumulate Radha moves towards South-East a distance of 7 km, then she moves towards West 46. t. 5,00,000 at the end of 12 years if interest is compounded annually at 10%? (Where and travels a distance of 14 km. From here she moves towards North-West a distance of 7 km and finally she moves a distance of 4 km towards east. How far is A (12, 0.1) = 21.384284} she now from the starting point? ₹ 23381.65 3 km ₹ 24385.85 4 km ₹ 26381.65 10 km ₹ 28362.75 D. 11 km The effective annual rate of interest corresponding to a normal rate of P, Q, R and S are playing a game of carrom. P, R and S, Q are partners. 'S' is to the 6% per annum payable half yearly is: right of 'R'. If 'R' is facing West, then 'Q' is facing which direction? 6.06 % South 6.07 % North 6.08 % East 6.09 % D. West 10 years ago the earning per share (EPS) of ABC Ltd. was ₹ 5 share. Its EPS for this 44. Pointing to a man in the photograph, Khushi says, "This man's son's sister is my 48. year is ₹ 22. Compute at what rate, EPS of the company grow annually? mother-in-law." How is the Khushi's husband related to the man in the photograph? 15.97% Grandson 16.77% Son 18.64% Son in law 14.79% D. Cousin KEJ P.T.O.

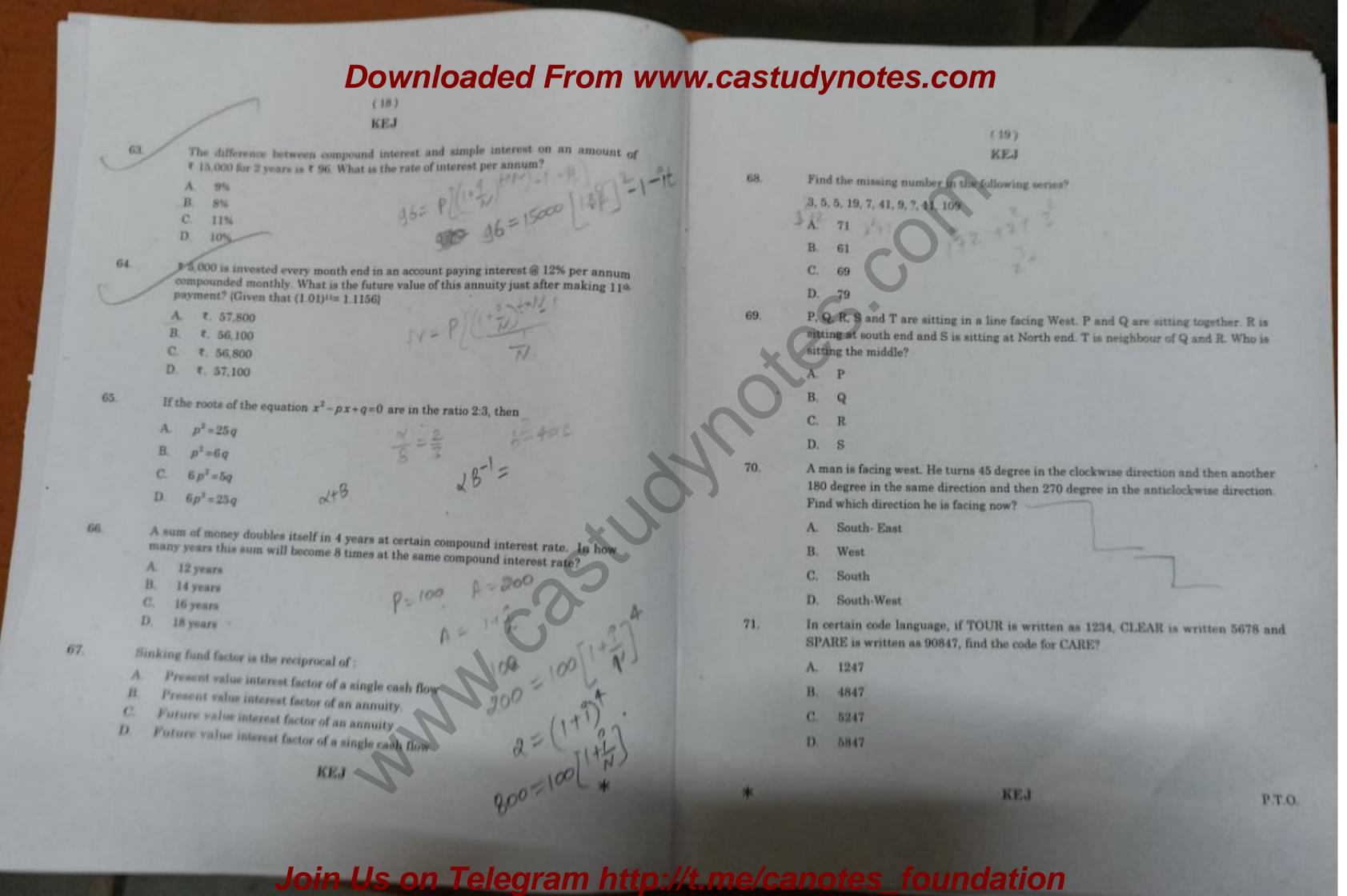
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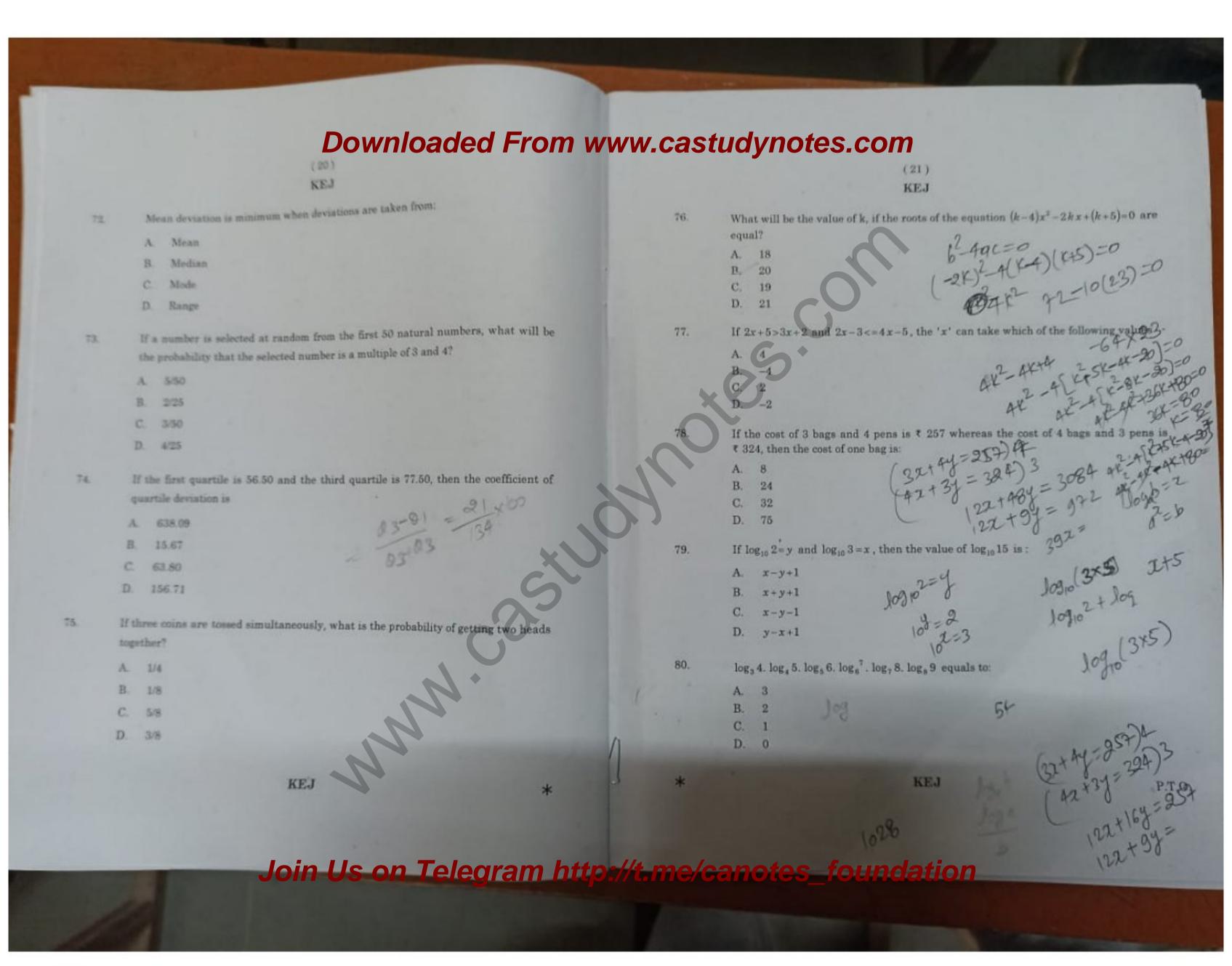
### Downloaded From www.castudynotes.com (15) KEJ KEJ A machine is made of two parts A and B. The manufacturing process of each part is such that probability of defective in part A is 0.08 and that B is 0.05. What is the Raju invests ₹. 20,000 every year in a deposit scheme starting from today for next 49. 52. 12 years. Assuming that interest rate on this deposit is 7% per annum compounded probability that the assembled part will not have any defect? annually. What will be the future value of this annuity? Given that $(1+0.07)^{12} = 2.25219159.$ 0.934 A. ₹. 540,526 0.864 ₹. 382,813 C. 0.85 ₹. 643,483 D: 1. 357,769 D. 0.874 If $P(A) = \frac{1}{3}$ , $P(B) = \frac{3}{4}$ and $P(A \cup B) = \frac{11}{12}$ then $P(\frac{B}{A})$ is: Mr A invested ₹ 10,000 every year for next 3 years at the interest rate of 8 percent 50. per annum compounded annually. What is future value of the annuity? 32644 32464 34264 36442 Mr. Prakash invested money in two schemes 'A' and 'B' offering compound interest at the rate of 8 % and 9 % per annum respectively. If the total amount of interest accrued through these two schemes together in two years was ₹. 4818.30 and total amount invested was ₹. 27,000. What was the amount invested in scheme 'A'? A. ₹. 12,000 The probability that a leap year has 53 Monday is: В. ₹. 12,500 51. ₹. 13,000 D. ₹. 13,500 A sum of money invested of compound interest doubles itself in four years. In how 55. many years it becomes 32 times of itself at the same rate of compound interest. A. 12 years 16 years 20 years D. D. 24 years KEJ P.T.O.

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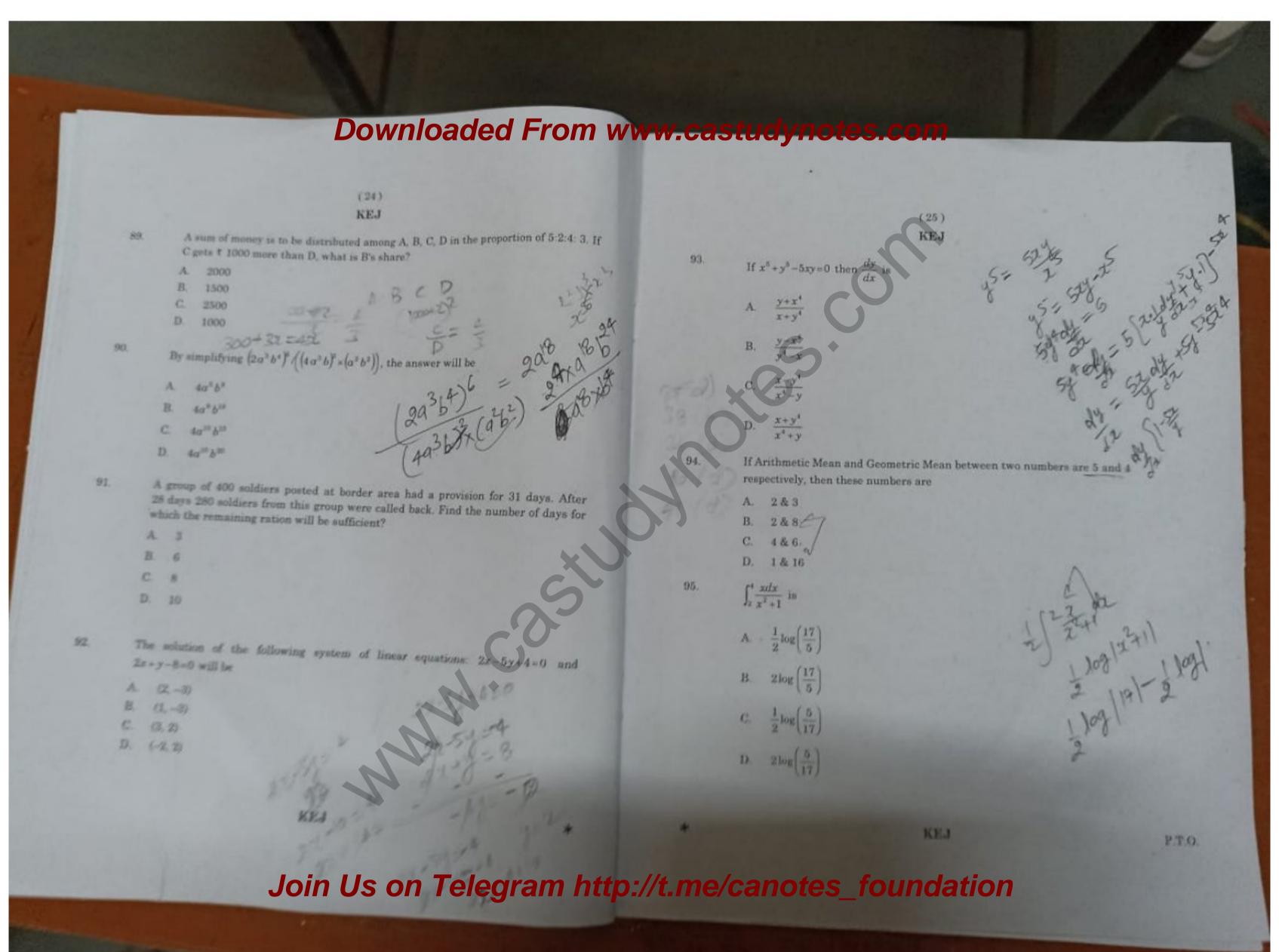
#### (16) KEJ One morning a boy starts walking in a particular direction for 5 Km and then takes a left turn and walks another 5 Km thereafter he again takes left turn and walks The speeds of a number of bikes follow a normal distribution model with a mean of another 5 Km and at last he takes right turn and walks 5 Km. Now he sees his 83 km/hr and a standard deviation of 9.4 km/hr. Find the probability that a bike shadow in front of him. What direction he did start initially? picked at random is travelling at more than 95 km/hr? A South B North West D East It is 3' o clock in a watch. If the minute hand points towards the North-East then the D. 0.278 hour hand will point towards the South Suppose A and B are two independent events with probabilities P(A) # 0 and South - West North - West P(B) ≠ 0. Let A' and B' be their complements. Which one of the following statements D. South - East is FALSE? Six persons A, B, C, D, E, and F are sitting in two rows with three persons in each 58. A. $P(A \cap B) = P(A)P(B)$ row. Both rows are in front of each other. E is not at the end of the any row and D is second left to the F. C is neighbour of E and diagonally opposite to D. If B P(A/B)=P(A)neighbour of F who is in front of C then who is sitting diagonally to F? $P(A \cup B) = P(A) + P(B)$ B. E $P(A' \cap B') = P(A') P(B')$ D. D The Theorem of Compound Probability states that for any two events A and B. 62. 59. Find the odd man out: $P(A \cap B) = P(A) \times P(B/A)$ 34, 105, 424, 2123, 12756 $P(A \cup B) = P(A) \times P(B/A)$ 12756 2123 $P(A \cap B) = P(A) \times P(B)$ 424 $P(A \cup B) = P(A) + P(B) - P(A \cap B)$ D. 34 KEJ \* KEJ P.T.O. Join Us on Telegram http://t.me/canotes\_foundation

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## Downloaded From www.castudynotes.com (22) KEJ (23) The number of subsets of the set (0, 1, 2, 3) is KEJ 81. 85. Ogive for more than type and less than type distributions intersect at B. 4 Mean Median D. 16 Mode Find the next number in the given sequence? 82 D. Origin The median of the observations 42, 72, 35, 92, 67, 85, 72, 81, 51, 56 is 153 163 64 D. 61.5 If the sum of square of the values equals to 3390, Number of observations are 30 and Standard deviation is 7, what is the mean value of the above observations? If ROSE is coded as 6821, CHAIR is coded as 73456 and PREACH is coded as 84. The mean of 50 observations is 36. If two observations 30 and 42 are to be excluded, 961473, what will be the code for SEARCH? then the mean of the remaining observations will be: 246173 A. 36 214673 B. 38 216473 214763 D. 50 KEJ KEJ P.T.O. Join Us on Telegram http://t.me/canotes\_foundation



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			nce of a random variable 'x' is 17, then what is variance of $y=2x+5$ ?	
0.0	16	the varian	ace of a random variable 'x' is 17, then what	
96.		0.1	nce of a random variation	
	B.		Downloaded Every www.cootudwpotes.com	
	C.		Downloaded From www.castudynotes.com	
	D.			
			their mean value is 40, what is coefficient of	
97.	If	the varian	ace of given data is 12, and their mean value is 40, what is coefficient of	
	variation (CV)		v):	
	A.			
	B.	6.66%		
	C.	7.50%		
	D.	8.65%		
98. /	In	a given se	t if all data are of same value then variance would be:	
/		0		
	D	1		
	B. C.	-1		
	D.	0.5		
	2.	0.0		
9.	JE4	rithmetic	mean between two numbers is 5 and Geometric mean is 4 then what is	
/	the	value of l	Harmonic mean?	
	A.	3.2	ME AMETINE	
	B.	3.4	5	
	C.	3.5	Harmonic mean?  AMCHM	
	D.	3.6 Join	n Us on Telegram http://t.me/canotes_foundation	
0.	The			
700	5 st	The average age of 15 students in a class is 9 years. Out of them, the average age of 5 students is 13 years and that of 8 students is 5 years. What is the average of remaining 2 students?		
	rem	aining 2 s	tudents? What is the average of	
	A	5 years		
	В.	9 years	715=3	
	C.	10 years	-x-=13 x1+x2+x3	
	D.	15 years		
		Wir Wilder	7953	
			And the second s	

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