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Marking the A	
Example: For Question No. 12, if the candidate considers, the correct answer to be C, he is to mark as shown below (Correct Method) 12 A B D	Not as shown below (Wrong method): 12 A B D D 12 A B D D

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Maximum Marks: 100 Examination Body. Time: 2 Hours Question Paper **Booklet Code** Total No. of Printed Pages: 24 3635316 Question Paper Booklet No. astho Name of the Candidate OMR Answer Sheet No. Signature of the Candidate 3635316

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A random variable X has the following probability density function:

 $f(x) = 6x(1-x), 0 \le x \le 1$ Then the mean is

 $(A) \frac{1}{3}$

 $2 \times \frac{2}{7} + \frac{4}{3} = 1$ (B) $\frac{1}{12}$

- The standard deviation of the data 2, 4, 5, 6, 8, 17 is 23.33, then the standard 2. deviation of the data 4, 8, 10, 12, 16, 34 is
 - (A) 46.66

(B) 23.33

(C) 12.23

- (D) 0
- The values of the first quartile and third quartile are 36.50 and 57.50. Then the 3. semi-inter-quartile range is
 - (A) 12.50

(B) 47.50

(C) 10.50

- (D) 11.50
- Let A and B be two possible outcomes of a random experiment and $P(A) = \frac{1}{3}$,

 $P(A \cup B) = \frac{1}{2}$ and P(B) = x. For what value of x are A and B mutually

exclusive events?

(B) $\frac{1}{4}$ $\frac{2+6n-3}{5}$ $\frac{1}{6}$ $\frac{1}{$

(D) $\frac{1}{8}$

5. A random variable has the following probability distribution:

X:	0	1	2	3
P:	1	1	1	1
V 1	2	3	4	5

0+ 1 +

Find expected value of X.

(A) 1.20

(B) 1.43

(C) 1.80

(D) 2.00

6. What will be the mode of the Binomial distribution in which mean is 20 & Standard Deviation is $\sqrt{10}$?

(A) 21

(B) 20.5

(C) 20

(D) 41

7. If X is a Poisson variable such that P(X=1) = P(X=2) then the variance is

(A) 1

(B) 2

(C) √2

(D) 3

8. Which one of the following statement is wrong?

- (A) The correlation coefficient between X and Y is 2.6.
- (B) The normal curve is bell shaped.
- (C) If r = 0, regression lines are perpendicular to each other.
- (D) For any two events A and B, $P(A \cup B) = P(A) + P(B) P(A \cap B)$.

9. The AM & GM for two observations are 8 and 2. Find the values of two observations.

(A) 16, 1

(B) 15.75, 0.25

(C) 15, 1

(D) 14.75, 1.75

10. The mean d	eviation of norma	distribution is	approximately	equal to
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(A) 3.14 σ

(B) 0.5 g

(C) 1.14 o

(D) 0.8 o

11. You are given the following data relating to a frequency distribution of 10 observations:

$$\Sigma X = 50$$
, $\Sigma Y = 60$, $\Sigma X^2 = 300$, $\Sigma Y^2 = 352$, $\Sigma (X + Y)^2 = 1372$

then Cov(X, Y) is

(A) 4

(B) 2

(C) 6

(D) 8

If 3 percent of ceramic cup manufactured by a company are known to be 12. defective. What is the probability that a sample of 100 cups are taken from the production process, of that company would contain exactly one defective cup?

(A) 0.03

(B) 0.15

(C) 0.09

(D) 0.30

13. A population comprises 7 members. The number of all possible samples of size 3 that can be drawn from it with replacement is -(B) 216 The state of the state

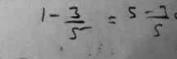
(A) 343

(CY 21

(D) 125

14. Let $P(A) = \frac{1}{5}$ and $P(\overline{B}) = \frac{3}{5}$. If A and B are mutually exclusive events then PLAUBERTA + PLO - PARB

 $P(A \cup B)$ is





15. If r = 0.8, $b_{yx} = 0.6$, $b_{xy} = 0.5$, $\overline{x} = 5$ and $\overline{y} = 3$, then the regression equation y on x is

(A)
$$y = 0.96x - 3.7$$

(B)
$$y = 0.6x - 6.0$$

(C)
$$y = 0.8x$$

(B)
$$y = 0.6x - 6.0$$

(D) $y = 0.6x$

16. Which one of the following index uses the method of average of base year and current year?

(A) Paasche's Index

- (B) Laspeyre's Index
- (C) Marshall-Edgeworth Index
- (D) Fisher's Index

17. If r = 0.8 then coefficient of non determination is

(A) 0.64

(B) 0.36

(C) 0.20

(D) -0.36

The correlation coefficient between X and Y is 0.2 and Var(X) = 5Var(Y) then 18. regression coefficient of X on Y is

(A) √5

(C) $\frac{1}{\sqrt{5}}$

19. Compute the rank correlation coefficient from the following data:

$$n = 10, \Sigma d^2 = 5$$

O

(A) 0.97

(B) 0.95

(C) 0.96

(D) 0.99

- 20. When the cost of Beverages increased by 40%, the person said that the rise had increased his cost of living by 8%. Before the change in price, the percentage of his cost of living was due to buying Beverages is:
 - (A) 20%

(B) 15%

(C) 5%

(D) 2%

- 21. If the prices of all the goods change in the same ratio, then
 - (A) Laspeyre's index and Paasche's index numbers are not equal.
 - (B) Laspeyre's index and Paasche's index numbers are equal.
 - (C) Laspeyre's index is greater than Paasche's index number.
 - (D) Laspeyre's index is less than Paasche's index number.
- 22. Given that $\Sigma p_n q_n = 300$, $\Sigma p_0 q_0 = \frac{125}{125}$ and Paasche's index number is 200 then the value of $\Sigma p_0 q_n$ is
 - (A) 150

(B) 125

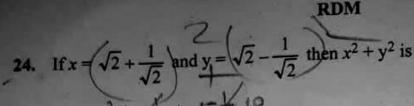
(C) 250

- (D) 100
- 23. If Laspeyre's index number is 125 and Paasche's index number is 500 then Fisher's index number is
 - (A) 250.0

(B) 312.5

(C) 62.5

(D) 147.5



- (B) $\sqrt{2}$
- (C) 5
- (D) 0
- 25. Suppose a father had a sum of ₹ 3,600 and he decided to divide this amount among his three sons Anil, Sunil and Nimal in such a way that 3 times Anil's share, 6 times Sunil's share, and 8 times Nimal's share are all equal. Then Anil's share is
 - (A) ₹960

(B) ₹1,920

(C) ₹ 720

- (D) ₹1,860
- 26. The ratio of age of two sisters is 5: 7. One is elder to the other by 8 years.

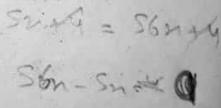
 Then the ratio of their age after 4 years between older to younger is
 - (A) 4:3

(B) 2:5

(C) 4:5

(D) 3:5

27. If $\left(\frac{x}{y}\right)^{a^2+4} = (x^{-1}y)^{-5a}$ then the value of a is



0% = 56 x

(B) -4, 1

(C) -4, -1

(D) 4, 1

28. A company produce two type of product A & B which require processing in two machines. First machine can be used up to 15 hrs. and second can be used at most 12 hrs. in a day. The product A requires 2 hrs. on machine 1 & 3 hrs. on machine 2. The product B requires 3 hrs. on machine 1 & 1 hour on machine 2. This can be expressed as:

(A)
$$2x_1 + 3x_2 \le 15$$

$$3x_1 + x_2 \le 15$$

(C)
$$3x_1 + 2x_2 \le 15$$

$$2x_1 + x_2 \le 12$$

(B)
$$2x_1 + 3x_2 \le 15$$

$$3x_1 + x_2 \le 12$$

(D)
$$2x_1 + 3x_2 \le 12$$

$$3x_1 + x_2 \le 15$$

29. If α and β are roots of the equation $2x^2 - 4x + 6 = 0$ then the quadratic equation $\alpha^2 + \beta^2$

with roots
$$\frac{\alpha^2}{\beta}$$
 and $\frac{\beta^2}{\alpha}$ is

(A)
$$3x^2 + 10x + 9 = 0$$

(B)
$$3x^2 - 10x + 9 = 0$$

(C)
$$x^2 - 13x + 3 = 0$$

(D)
$$x^2 + 10x + 9 = 0$$

30. A manufacturer produces two products A and B. The profit on product A is ₹ 8 on each unit and profit on product B is ₹ 13 on each unit. Then the objective function is

(A) Maximize
$$Z = 8x_1 + 13x_2$$

(B) Minimize
$$Z = 8x_1 + 13x_2$$

(C) Minimize
$$Z = 13x_1 + 8x_2$$

(D) Maximize
$$Z = 13x_1 + 8x_2$$

31. What are the values of x & y from the given equations?

Given that
$$\frac{x}{2} - \frac{y}{5} = y - x$$
 and $\frac{x-5}{y-10} = 1$

32. Anil deposited a certain amount in a bank at the rate of 10% per annum compounded semi-annually. At the end of one year Anil received a sum of ₹ 13,230. Then the sum deposited in the bank is

(A) ₹1,200

(B) ₹13,000

(C) ₹ 12,000

(D) ₹5,000

33. The simplified value of $[5a^5b^2 \times 3(ab^3)^2]/(15a^2b)$ is

(A) a7 b7

(B) $a^5 b^7$

(C) a5 b5

(D) $a^7 b^5$

34. Three Employees A, B and C of a firm receive variable incentive money in the ratio 3:4:5. Then the Management also gave a fixed incentive of ₹ 4,000 to each of them. As a result now the total incentive amount of A, B and C becomes in the ratio 5:6:7. How much amount did B get as variable incentive?

(A) ₹4,000

(B) ₹2,000

(C) ₹ 6,000

(D) ₹8,000

35. A certain amount at a rate of simple interest x, doubles in 5 years. At another rate of simple interest y, it becomes three times in 8 years. Then the difference between these two interest rates is

(A) 8%

(B) 5%

(C) 3%

(D) 4%

36. John borrows a loan of ₹ 10,000 from a bank and he agreed to pay back in 24 equal instalments at the rate of 10% compound interest per annum. Then each instalment amount is (Given that (1.1)²⁴ = 9.8 (973)

(A) ₹1,112.99

(B) ₹ 1200.35

(C) ₹1,211.99

(D) ₹ 1,321.56

37. What is the present value of $\stackrel{?}{\stackrel{?}{\stackrel{?}{?}}}$ 8,000 to be required after 10 years if the interest rate be 6%? (Given that $(1.06)^{10} = 1.7908$)

(A) ₹4,467.28

(B) ₹ 6,499.87

(C) ₹ 5,867.32

(D) ₹ 1,790.86

38. The effective rate of interest corresponding to a nominal rate of 8% per annum payable quarterly is (Given that $(1.02)^4 = 1.08243216$)

(A) 5.38%

(B) 6.24%

(C) 8.24%

(D) 82.4%

39. Sunil plans to save for his higher studies. He wants to accumulate a sum of ₹ 5,00,000 at the end of 10 years. How much amount should he invest every year if the interest rate is 10% compounded annually?

(Given that $(1.1)^{10} = 2.593742$)

(A) ₹3,137.27

(B) ₹31,372.71

(C) ₹31,312.71

(D) ₹3,000.32

40. The future value of an annuity of ₹ 7,200 made annually for 5 years at the rate of 12% compounded annually is (Given that (1:12)⁵ = 1.76234)

(A) ₹4,574.50

(B) ₹45,740.40

(C) ₹ 54,740.50

(D) ₹ 2,400.50

41. A certain amount is invested in a bank. What annual rate of interest compounded annually becomes 8 times of this investment in 5 years?

(Given that $8^{1/5} = 1.515716$)
(A) 5.15%

(B) 51.57%

(C) 15.15%

(D) 1.51%

42. If the compound interest on a certain sum for 2 years at 5% per annum is ₹ 246, then the simple interest on the same sum for double the time and double the rate per annum is:

(A) ₹960

(B) ₹900

(C) ₹1,000

(D) ₹1,100

43. Sam invested ₹ 12,000 for 10 years in a financial company. At the end of 10th year his investment value is ₹ 18,000. Then the Compound Annual Growth Rate (CAGR) is if $(x)^{1/n} = 1.0413$

(A) 4.13%

(B) 41.40%

(C) 11.56%

(D) 12.06%

44. Mr. A invested ₹ 20,000 in a bank at the rate of 4.5% p.a. He received ₹ 27,500 after end of term. Find out the period?

(A) 8.34 Yrs

(B) 4.50 Yrs

(C) 6.50 Yrs

(D) 8.10 Yrs

45. ₹ 1,500 is paid every years for 10 years to pay a loan. What is the loan amount, if rate of interest 5% p.a ? If (1.05)¹⁰ = 1.6288

(A) ₹11,505.50

(B) ₹11,581.53

(C) ₹11,903.38

(D) ₹ 12,503.48

- 46. In how many ways can 5 Doctors, 4 Professors, and 6 Auditors be seated in a row so that all person of the same profession sit together?
 - (A) 3! × 5! × 4!

(B) 93! × 5!

(C) 3! × 5! × 4! × 6!

(D) $3! \times 5! \times 6!$

The sum of the 4th and 8th term of an AP is 10. Then the sum of first eleven terms of the series is

(A) 22

(C) 44

48. Madhu deposits ₹ 100 in a Bank at the beginning of every year for 20 years at 10% interest rate compounded annually, how much would she earn after 20 years ? [Given that $(1.1)^{20} = 6.7275$]

(A) ₹ 6,500.45

(B) ₹ 6,300.25

(C) ₹ 5,600.25

(D) ₹ 6,250.35

49. How much amount is required to be invested every year so as to accumulate ₹ 15,00,000 at the end of 20 years if interest is compounded annually at 10%? [Given A(n, i) = 57.274999]

(A) ₹29,190.35

(B) ₹ 26,189.44 (D) ₹ 30,698.44

(C) ₹24,155.35

50. Assuming that the discount rate is 12% per annum, how much would you pay to receive ₹ 100, growing at 8% annually forever?

(A) ₹2,700

(B) ₹ 2,500

(C) ₹3,000

(D) ₹2,000

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51. Find the 9th term of the A.P. $\frac{1}{8}$, $\frac{2}{5}$, $\frac{2}{2}$, $-\frac{1}{1}$, $\frac{3}{4}$, . (A) -24

(B) -10

(0) -16

... is 55. The number of terms is: The sum of series 1+2+3+...52.

(A) 30

(B) 40

(C) 20

(D) 10

53. A panel has total of 11 members including 5 males and 6 females. Find out the number of ways of picking 2 males and 3 females from the given panel team.

(A) 200

(B) 110

(C) 220

(D) 350

The product of three numbers which are in GP is 512. Then the second 54. number is

(A) 3

(B) 2

(C) 6

55. Let $A = \{a, b, c, d, e\}$ then the number of proper subsets is

(A) 32

(C) 30

In how many ways can 13 balls be arranged, if 4 of them are black, 6 red & 5 are white?

(A) 3005

(B) 3004

(C) 3003

(D) 3008

- The marginal revenue function for a product $MR = 5 4x + 3x^2$. Then the total 57. 3n2 -4n+5=0 revenue function is
 - (A) $5x 2x^2 + x^3$

(B) $5x + 2x^2 + x^3$

(C) $5x + 2x^2 + x^3 + 3$

- (D) $5x 2x^2 x^3$
- 58. Evaluate: $\lim_{x \to 3} \frac{x^2 + 4x + 3}{x^2 + 6x + 9}$
 - (A) $\frac{2}{8}$

(B) $\frac{2}{3}$

(C) 2

- (D) $\frac{1}{3}$
- In how many ways can an interview panel of 3 members be formed from 3 engineers, 2 psychologists and 3 managers if at least 1 engineer must be included?
 - (A) 15

(B) 30

(C) 46

- (D) 45
- **60.** $A = \{a, b, p\}, B = \{2, 3\}, C = \{p, q, r, s\} \text{ then } n[(A \cup C) \times B] \text{ is } :$ (B) 8 0 6 15 5 x (4,3)
 - (A) 20

(e) 12

- 61. If $x = at^2$ and $y = a(t^3 t)$ then $\frac{dy}{dx} =$
 - $(A) \quad \frac{3t^2 t}{2t}$

(B) $\frac{3t^2-1}{2t}$

 $(C) \quad \frac{3t^2-1}{t}$

(D) $\frac{3t^2+1}{2t}$

- 62. In certain code language 'CLOCK' is coded as 75276 and 'EARTH' is coded as 83491, then 'COAT' is coded as
 - (A) 7239

- (B) 7329
- 83491 OAT

(C) 7932

- (D) 7529
- 63. Find the missing term of series 2, 7, 16, 29, 46, 67, 92
 - (A) 46

(B) 39

(C) 43

(D) 62

- **64.** $\int (2x+5)^7 dx$
 - (A) $\frac{(2x+5)^7}{7}$

(B) $\frac{(2x+5)^8}{16}$

(C) $\frac{(2x^2+5x)^7}{2}$

- (D) $\frac{(2x^2+5x)^7}{5}$
- 65. A committee of 3 members is formed from 5 women and 3 men in such a way that it consists at least 2 members who are women. In how many different ways can it be done?
 - (A) 50

(B) 40

(C) 60

- (D) 30
- 66. Find the missing term CEGI, XVTR, GIKM, _____
 - (A) KMBD

(B) TRPN

(C) AMNL

(D) JLNP

- 67. Raju started walking 10 kms towards east from his home. He turned right and walked 5 kms to the south to reach his school. In which direction is his school from his home? South-East (A) North-East North-West (C) South-West
- A started walking from his house & walk 4 km north side then turns right & walk 3 km. If he turns right again, what is the direction now?
 - (A) West
 - (C) East

- North
- South
- 69. In a certain language 'MENTION' is written as 'NFOUJPO', the code of 'MYSTIFY' is:
 - NZTUIG (A) NFOFTJT

(B) NZTUJGZ

(C) LNEITNO

- **OERESTN** (D)
- 70. Find the odd man out from the following: Marriage, Wedlock, Divorce, Matrimony
 - (A) Wedlock

(B) Marriage

(C) Divorce

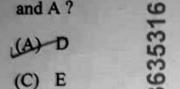
- (D) Matrimony
- 71. Anil started walking 5 kms towards porth then he turned left and walked 3 kms. Again he turned left and walked 5 kms. Then the total number of kms he walked is
 - (A) 8 kms

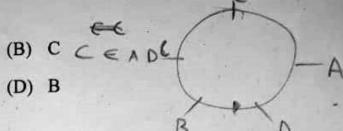
(B) 13 kms

(C) 3 kms

(D) 5 kms

72. Five persons A, B, C, D and E are sitting in a circle facing centre. C is sitting immediate left of E. A is sitting in between E and D. Who is sitting between B





73. A man starts walking 10 km to the North. He turns right and walks 5 km, then turns right again and walks 10 km. In which direction is man now from the starting point?

(A) West

(B) East

(C) North

(D) South

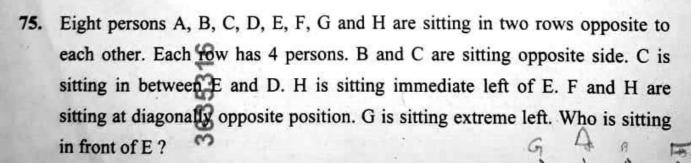
74. In the morning Anika started walking from a point where her shadow falls in front of her. She walked 2 kms and then turned left and walked 2 kms. Again she turned left and walked 2 kms. In which direction is she now facing?

(A) West

(B) East

(C) South

(D) North

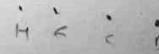


(A) G

(B) F

(C) B

(D) A



	L is wife of N, P is son of N, K is	brother of N and	d father of O.	What is the
	relationship of P and O?			

(A) Brother

(B) Uncle

(C) Cousin

(D) Nephew

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77. C is sister of B. D is father of A. A is brother of B. D and E are married couple. How is C related to E?

(A) Son

(B) Daughter

(C) Mother

(D) Father

78. Five people A, B, C, D, E are seated about a round table facing outside the center but not necessary in the same order. A sits at immediate right of E. C sits third to the left of D, who sits at the immediate right of A. How many persons are sitting between C & D?

(A) 2

(B) 1

(C) 3

(D) 4

79. Five friends A, B, C, D and E are sitting in a row facing east. A is sitting between C & D. B is second to the left of C. Who is sitting at the south end?

(A) B

(B) E

(C) C

(D) D

BECAD

80. Five persons A, B, C, D & E sitting on a bench. A is immediate right of B. E is immediate left of C and immediate right of A. B is the right of D. Which person is sitting in the middle of bench?

(A) E

(B) B

(C) A

(D) D

81.	Stan	dard Error (SE) and square root	of sam	ple size are			
	(A)	Equal	(B)	Directly proportional			
	(C)	Inversely proportional	3 8 353	Not equal			
82.	The	mean of three numbers is 135	5. Am	ong the three numbers the biggest			
				remaining two numbers is 25. Then			
	the s	mallest number is					
	(A)	125	(B)	130			
	(C)	120	(D)	100			
	A		(C)				
83.	B is	daughter of A. C is brother of	B. C	is the only son of D. C and E are			
	married couple. F is the only son of E. Then how is F related to A?						
	(A)	Father	(B)	Grandson			
	(C)	Brother	(D)	Uncle			
R	2	3/-	CD CD				
84.	Give	n that X is mother of Y. Z is so	n of X	K. A is brother of B. B is daughter of			
	Y. W	ho is grandmother of A?	9)				
	(A)	Y	(B)	X			
	(C)	AVED	(D)	В			
		*W	24	grade and the same of the			
85.	Hie	fother of W. Vie can of V. Vie	(D)	or of II If W is sister of V have a			
93.		ed to Y?	Sibu	er of U. If W is sister of X, how is X			
			(P)	Father			
	(A)	Sister-in-law	(B)	Father			
	(0)	Nephew	(D)	Grandson			

86.		he non-overlapping classes lass 35-44 is			-64 the class mark	
	(A)	40.5	(B) 3	9.5		
	100	35.0	(D) 4	4.0		
87.	Non-	probability Sampling is also	known as:			
	(A)	Simple Random Sampling				
	(B)	Stratified Sampling	3 4			th Lat to
	25 555	Purposive or Judgment San	mpling			4
	7.6	Cluster Sampling	to 00	300 km	1000 × 40% =	400 h
88.	300 song	of 1000 persons, 40% are fine persons enjoyed the song. were female. What is the function?	emale, other 30% of the number of m	people wh	o had not enjoyed	the
	B 10	360	(D)	490		
89.	In ta	bular presentation of data,	stub is			
	(A) Right part of the table providing the description of the row					
	(B)	Left part of table, which p	rovide the d	escription o	frows	
	(C) Left part of the table providing the description of columns					
	(D)	Right part of the table pro	viding the d	escription o	f columns	
90.	Which sampling technique is most appropriate when a person wants to ensure that subgroups are proportionally represented?					
	(A)	Simple Random Samplin	g (B)	Stratified S	ampling	
	(C)	Multistage Sampling	(D)	Systematic	Sampling	
			RDM			

- 91. If x and y are related as 4x + 2y + 12 = 0 and mean deviation of x is 4.5, then the mean deviation of y is
 - (A) 9

(B) -9

(C) 1.1

- (D) 4.5
- 30+24 30 29 = -30 2 = -30
- 92. For a distribution the mean is 30. The standard deviation is 2, then coefficient of variation is
 - (A) 9.45%

(B) 6.67%

(C) 7.5%

(D) 2.5%

- 93. Ogive is used to find
 - (A) Median

(B) Mean

(C) Mode

- (D) Range
- 94. The algebraic sum of deviation of set of observations from their arithmetic mean is

(A)
$$\sqrt{\frac{\Sigma(x_i - \overline{x})^2}{(n-1)}}$$

(B) $\frac{\sum x_i}{n}$

(C) $\frac{\sum x_i}{(n-1)}$

- (D) Zero
- 95. Mean deviation is _____ when the deviations are taken from the median.
 - (A) minimum

(B) maximum

(C) zero

(D) can't say

ø

96. If the mode of the following data is 13, then the value of x in the data set is

13, 8, 6, 3, 8, 13, 2x + 3, 8, 13, 3, 5, 7

(A) 5

(C) 7

The best measure of central tendency is

(A) Median

(B) Mean

(C) Mode

Range

A sample of 100 people is taken from a population of 1000. The sample mean 98. height is 170 cm with a standard deviation of 10 cm. What is the standard error of mean?

(A) 1.0 cm

(B) 0.5 cm

1.58 cm (C)

(D) 10 cm

In pie chart, if a category represents 25% of the total data, what will be the 99. angle of corresponding sector?

(A) 45°

(B) 90°

(C) 60°

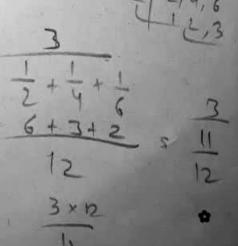
75°

- 100. Find the Harmonic Mean of 2, 4 & 6.
 - (A) 3.00

3.30 (B)

(C) 3.75

(D) 4.00



Space For Rough Work

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