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NOTE'S

Business Mathematics, Logical

Reasoning and Statistics

100 Important questions

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CA FOUNDATION

BUSINESS MATHEMATICS, LOGICAL REASONING AND STATISTICS

ANSWERS TO MCQs

Answers:

1. A
Explanation:
Let the income of A and B be 3x and 2x
Expenditure of A and B be 5y and 3y
Then, 3x-5y = 1500(i)
2x-3y = 1500(ii)
By solving i and ii we get
X = 3000 and y = 1500 Achieving Excellence Together
Hence, B's income = 2x = 2 x 3000 = Rs6000

2. C

3. A

Explanation:

Here, A:B:C = 1/4:1/5:1/6 = 15:12:10/60 = 15:12:10

A's share = 407*15/37 = Rs. 165

B's share = 407*12/37 = Rs. 132

C's share = 407*10/37 = Rs. 110

4. C

5. A

6. C



Explanation:

Let starting salary be x and annual increment be y

Then, x+4y=1500 1 and x+10y=1800...... 2

By solving 1&2 we get x=1300=starting salary and y=50= annual increment

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9. B

Explanation:

Let coordinates of C be (x,y)

centroid = X1+X2+X3/3,Y1+Y2+Y3/3

Then, 5+(-1)+x/3=2,6+4+y/3=3

4+x=6, 10+y=9

x=2, y=-1

Coordinates of C are (2,-1)

10. B

11. C

12. B

13. A

Explanation:

Since a is a positive number therefore its reciprocal i.e. 1/a will also be positive

Since b is a negative number therefore its reciprocal i.e. 1/b will also be negative



15. D

Explanation:

Let experience person = x units work per day

Fresh one = y units work per day

Therefore, $7x + 5y \ge 35$

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16. B

17. B

18. C

19. A

Explanation:

The number of triangles that can be formed from a set of 12 points = 12C3 since 7 points are on the same line, therefore no triangle can be formed from these points i.e. number of triangles = 12C3 - 7C3 = 220 - 35 = 185

20. A

Explanation:

There are two cases possible:

CASE 1:- When mathematics part-II is borrowed (i.e it means part-I has also been borrowed)

Number of ways = 6C1 = 6 waysqchieving Excellence Together

CASE 2:-when mathematics part-II is not borrowed (i.e.3 3 books are to be selected out of 7)

Number of ways = 7C3 = 35 ways

Hence, total number of ways = 35 + 6 = 41 ways

21. A

Explanation:

 $6Pr = 24 \times 6Cr6! (6 - r)! = 24 \times 6!r! \times (6 - r)!4! = 24r!r! = 244!r! = 4!r = 4$

22. A

Explanation:

No. of ways of drawing 3 balls at a time = 120 ways

No. of ways of drawing 3 white balls out of 5 white balls = 10 ways

Total no .of ways = favourable cases/total no. of cases = 10/129 = 1/12

23. B

Explanation:

Total no. of 2 digits that can be formed = $9 \times 8 = 72$

Total no. of 3 digits that can be formed = $9 \times 8 \times 7 = 504$

Total no. of 1 digits that can be formed = 9

Total numbers that can be formed = 9 + 72 + 504 = 585

24. C

Explanation:

Since 2 particular books are to be kept always at the first and last place, so if we fix places, the remaining 5 books can be arranged in 5! Ways

Those, 2 books can also change their places in 2! ways

The total number of arrangements are = $5! \times 2! = 120 \times 2 = 240$ ways

25. B

Explanation:

CASE I P=Rs 1400, T=3Yrs, R = X% SI = PRT/100 = 1400 × X × 3/100 = 42X CASE II P = Rs 1800, T = 3Yrs, R = X% SI = PRT/100 = 1800 × X × 3/100 = 54X Given, case I - case II = 80 54X - 42X = 80 X = 80/12 = 6.67% = R Construction of the second second

Explanation:

Purchase cost of machine at present =Rs 8100

Present value of the lease rental = $a/i[(1 + i)n - 1/(1 + i)n] = 2000/0.18[(1 + 0.18)5 - 1/(1 + 0.18)5] = 11111 \times 0.5629 = Rs. 6254.34 (aprox)$



Explanation:

A=P[1 + rt/100]

10000 = 8000[1 + r x 2/100]

10000/8000 = 100 + 2r/100

2r = 125 - 100

R = 25/2 = 12.5% p.a.

Let the amount which will become Rs 6875 be P. then,



Explanation:

Here, a = 200, d = 25 and Sn = 9450 Assume that the contract time is over run for n days. Then Sn = $n2[2a + (n - 1)d]9450 = n2[2 \times 200 + (n - 1)25]18900 = n[400 + 25n - 25]18900 = n(375 + 25n)18900 = 375n + 25n225n2 + 375n - 18900 = 0n2 + 15n - 756 = 0 n2 + 36n - 21n - 756 = 0n(n + 36) -21(n + 36) = 0(n - 21)(n + 36) = 0n = 21 or n = -36 hence, no. of days can't be negative so n = 21 days$

Explanation:

Let the first terms of G.P be a, then its second term = a - 2

Common ratio i.e. r=a-2/a

Sum of infinity=50

a/1 - r = 50

a/1 - (a - 2)/a = 50

a/a – a + 2/a = 50

r = 10 -2/10 = 8/10 = 4/5

Therefore, the required series is 10, 8, 32/5......

34. A

35. C

Explanation:

Given, Sn = 2n2 + 5nSn - 1 = 2(n - 1)2 + 5(n - 1)

= 2n2 + 2 - 4n + 5n - 5

$$= 2n2 + n - 3nth term (Tn) = Sn - Sn - 1$$

= (2n2 + 5n) - (2n2 + n - 3)

= 4n + 3

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37. B

38. A

Explanation:

A = {1, 2, 3} and B = {6, 4, 7}

Relation $R = \{(2, 4)(3, 6)\}$ will be function from A to B.



40. C

Explanation:

F: $A \rightarrow B$ 2 $\rightarrow 4-2 \rightarrow 4$ 3 $\rightarrow 9-3 \rightarrow 9$ many one function from A onto B

41. A

Explanation:

If A = {1, 2, 3, 4}

 $\mathsf{B}=\{2,\,4,\,6,\,8\}$

When f: $A \rightarrow B$, f = {(1, 2), (2, 4), (3, 6), (4, 8)}f - 1implies f: $B \rightarrow Af - 1 = \{(2, 1), (4, 2), (6, 3), (8, 4)\}$

42. D

Explanation:

$n(NURUT) = n(N) + n(R) + n(T) - n(N \cap R) - n(N \cap T) - n(R \cap T) + n(N \cap R \cap T)$					
= 200 + 100 + 40 - 50 - 25 - 20 + 5					
= 250					
No. of companies not using any media					
= n(S) - n(NURUT)					
= 300 - 250					
= 50					
ALL TRO					
43. D					
Explanations:					
H is sister of G and G is child of D.					
So Hand G children of D.					
J is aunt of H.					
So J can be wife of D's brother C or J can be sister of D's wife.					
In both cases J will be sister in law of D.					

44. B

Explanation:

B and A are husband wife, who have 2 children of same sex. A is mother of D who is father of G. This means both children are males. D is brother of C, so C and D both are sons of A and B. D also has two children – G and H. If B is grandfather of E then C must be father of E.



43 - 42 = 1

Differences between the consecutive numbers are in Geometric Progression (G.P)

Hence, 44 is the wrong number.

50. A





Explanation:

 $11 + 1^2 + 1 = 13$

 $13 + 2^2 + 1 = 18$



54. A

Explanation:

The movements of the girl are as shown in Fig. (A to B, B to C, C to D, D to A). Clearly, she is finally moving in the direction DA i.e. North east.

Explanation:

According to the question, the direction diagram is as follows



Required distance = PQ = 150 - (25 + 25 + 35) = 65km

57. D

Explanation:

According to the question, the direction diagram is as follows

A = Original position, E = Finishing point

BC =20, AB = 15m, AC = ED = 5m, CD = AE = 10m

Clearly, at finishing point E, Anoop is 10 m East from original position A.

Directions (Q. 58-62):



58. B

59. C

60. A

61. D

62. D

Direction (Q 63-67):

ROW 1	S	Р	U	R	Т	Q	Facing south
ROW 2	К	L	Μ	Ν	0	J	Facing north

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63. C

Explanation:

In the south facing row, S and Q are sitting at the extreme ends of the row.

64. B

Explanation:

O is sitting immediate right of N

65. C

Explanation:

P and R are the immediate neighbours of U.

66. D

Explanation:

L and N are interchanges their position hence, P faces N.

67. D

Explanation:

First person is sitting immediate right of second person in all the option except option d).



Explanation:

From 1 to 16, there are 4 numbers which are multiple of 4

1st 2 are multiple of 4, and one any other number from (16 - 4) = 12 tickets

4c2*12c1/16c3 = 72/560

2nd all are multiples of 4.

4c3/16c3=4/560

Add both 72/560 + 4/560. = 76/560 = 19/140

81. D

Explanation:

Prob. of 1st winning = 2/7, so not winning

= 1 - 2/7 = 5/7

Prob. of 2nd winning = 3/5, so not winning

= 1 - 3/5 = 2/5

So required prob. = 2/7 * 2/5 + 3/5 * 5/7 = 19/35

82. C

Explanation:

P(A) = 3/5 and P(B) = 4/5. Now they are contradicting means one is telling truth and other telling the lie. So,

Probability = (3/5)*(1/5) + (2/5)*(4/5)

= 3/25 + 8/25 = 11/25

83. B

Explanation:

Total possibility = 5*4*3*2

Favourable outcomes = 2*4*3*2 (to be divisible by 5 unit digit can be filled with only 0 or 5, so only two possibilities are there, then the remaining can be filled in 4, 3 and 2 ways respectively)

So probability = 2/5

84. B		1
85. A	Achieving Excellence Together	
86. B		
87. A		
88. C		
89. B		
90. B		
91. B		
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