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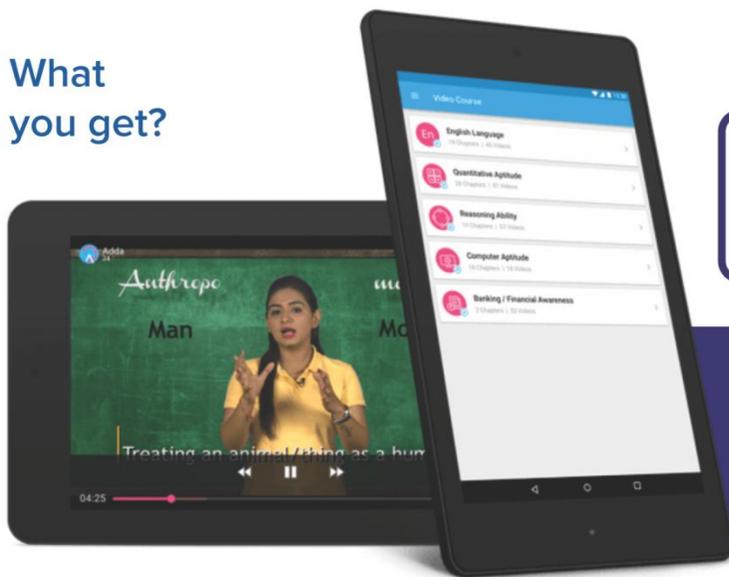
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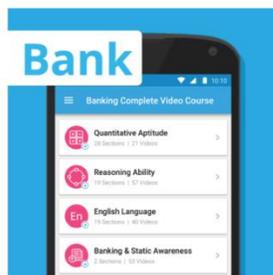


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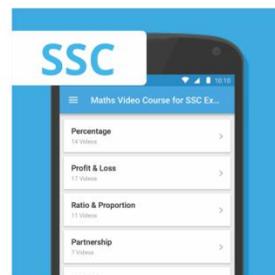


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Directions (1-5): The following questions are accompanied by three statements (A) or (I), (B) or (II), and (C) or (III). You have to determine which statements(s) is/are sufficient/necessary to answer the questions.

Q1. What is the value of a two-digit number in which digit at tens place is greater than digit at unit place?

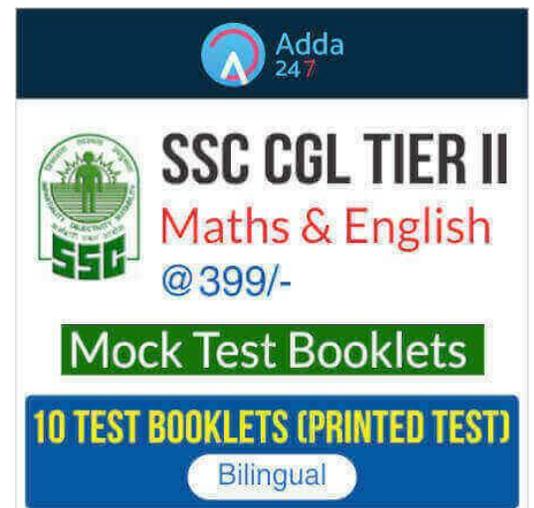
- A. The sum of the digits is 5.
- B. The difference of the squares of the digits is 15.
- C. The difference of their digits is 3.
- (a) A and B together are sufficient
- (b) B and C together are sufficient
- (c) C and A together are sufficient
- (d) Any one pair of A and B, B and C or C and A is sufficient
- (e) A, B and C together are necessary

Q2. What is the rate of interest at which Binod has invested money?

- A. The compound interest at this rate of Rs 2500 in 2 yrs is equal to the simple interest in 3 yrs of Rs $1716\frac{2}{3}$ at the same rate.
- B. The total simple interest on an investment of Rs 12000 for 3 yrs and Rs 10000 for 5 yrs at this rate is Rs 5160.
- C. In 3 yrs Rs 1500 at the same rate becomes Rs 1725 by simple interest.
- (a) Any of them
- (b) A and either B or C
- (c) Only C
- (d) Only A and either B or C
- (e) Any two of them

Q3. A person travels from X to Y and back again. How long will it take in travelling both the ways by bus?

- A. It takes 21 hours in travelling from X to Y by train and returning by bus.
- B. The distance between X and Y is 648 km.
- C. A person can save 3 hours if he travels both the ways by train as compared to travelling by bus on the one side and returning by train.
- (a) Only A and C together
- (b) B and either A or C
- (c) Any two of them
- (d) All statements are necessary
- (e) Question can't be answered even after using all the information



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Q4. Find the number of days in which Q can do a job if P can do the same job in 8 days.

A. Q is 60% more efficient than P.

B. P and Q together can do the job in $3\frac{1}{3}$ days.

C. P is $37\frac{1}{2}$ % less efficient than Q.

(a) Only A is sufficient

(b) Only B is sufficient

(c) Either A or B is sufficient

(d) Any of them

(e) A and C together are sufficient

Q5. What will be the cost of fencing a rectangular plot?

A. Cost of fencing a circular plot whose area is 616m^2 is Rs 968.

B. Perimeter of the rectangular plot is 200 m.

C. Perimeter of the square whose length is equal to the breadth of the rectangular plot is 20 m.

(a) Only C

(b) A and C together

(c) A and B together

(d) A and either B or C

(e) Question can't be answered even after using all the informations

Directions (6-7): An urn contains some no. of green balls, 16 blue balls and some red balls. The probability of getting a red or green ball, which picking randomly is $\frac{2}{3}$.

Q6. Two balls are picked up randomly from the bag one by one without replacement. The probability of having Ist ball blue and IInd ball red is $\frac{13}{141}$. Then find the difference between no. of red balls and of green balls.

(a) 4

(b) 6

(c) 8

(d) 9

(e) None of these

Q7. 2 balls are picked up from the urn. The difference between the probability of having both balls red and both balls green is $\frac{31}{282}$ then find the probability of having 1 ball red and 1 ball green.

(a) $\frac{21}{141}$

(b) $\frac{20}{141}$

(c) $\frac{22}{141}$

(d) $\frac{10}{47}$

(e) None of these

Q8. A shooter fires four round on a target. Find the probability that target will be hit.

- (a) $\frac{81}{256}$
- (b) $\frac{175}{256}$
- (c) $\frac{171}{256}$
- (d) $\frac{181}{256}$
- (e) None of these

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Directions (9-10): There are five men, six women and four children in a family.

Q9. How many ways a committee of seven members can be formed such that at least is one man and exact one child in the committee ?

- (a) 1920
- (b) 1860
- (c) 1844
- (d) 1794
- (e) None of these

Q10. In how many ways five men can be seated among six women such that no two men seat together?

- (a) 19,14,600
- (b) 16,18,400
- (c) 20,16,200
- (d) 18,14,400
- (e) None of these

Q11. A square floor of the dimensions 72 cm × 72 cm has to be laid with rectangular tiles whose length and breadth are in the ratio 3 : 2. What is the difference between the maximum number of tiles and minimum numbers of tiles, given that the length and the breath are integers ?

- (a) 858
- (b) 864
- (c) 868
- (d) 872
- (e) None of these

Q12. Profit on selling 10 candles equals selling price of 3 bulbs. While loss on selling 10 bulbs equals selling price of 4 candles. Also profit percent-age equals to the loss percentage and cost of a candle is half of the cost of a bulb. What is the ratio of selling price of candle to the sellings price of a bulb?

- (a) 5 : 4
- (b) 3 : 2
- (c) 4 : 5
- (d) 3 : 4

Q13. Three men A, B and C working together 8 hours per day can print 960 pages in 20 days. In a day B prints as many pages more than A as C prints as many pages more than B. The number of pages printed by A in 4 hours equal to the number of pages printed by C in 1 hours. How many pages C prints in each hour?

- (a) 1
- (b) 2
- (c) 3
- (d) 4
- (e) None of these

Q14. A, B, C are partners. A receives $\frac{2}{7}$ of the profit and B & C share the remaining profit equally. A's income is increased by Rs. 240 when the profit rises from 10% to 15%. Find the capital invested by A, B and C respectively?

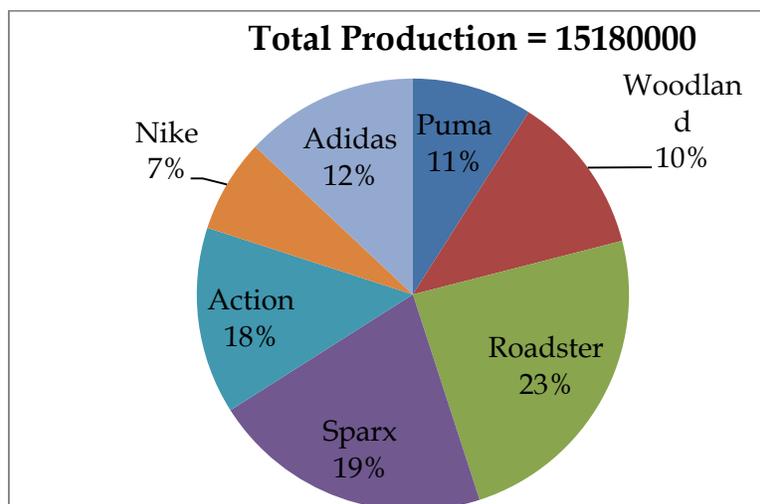
- (a) Rs. 4200, Rs. 6000, Rs. 6000
- (b) Rs. 4800, Rs. 6000, Rs. 6000
- (c) Rs. 4500, Rs. 5625, Rs. 5625
- (d) Rs. 4000, Rs. 5000, Rs. 5000
- (e) None of these

Q15. In a circus, there was a leopard and a tiger walking in the two different rings of same radii. There Anjali observed that when leopard moved three steps, tiger moved 5 steps in the same time, but the distance traversed by leopard in 5 steps is equal to the distance traversed by tiger in 4 steps. What is the number of rounds that a leopard made when tiger completed 100 rounds?

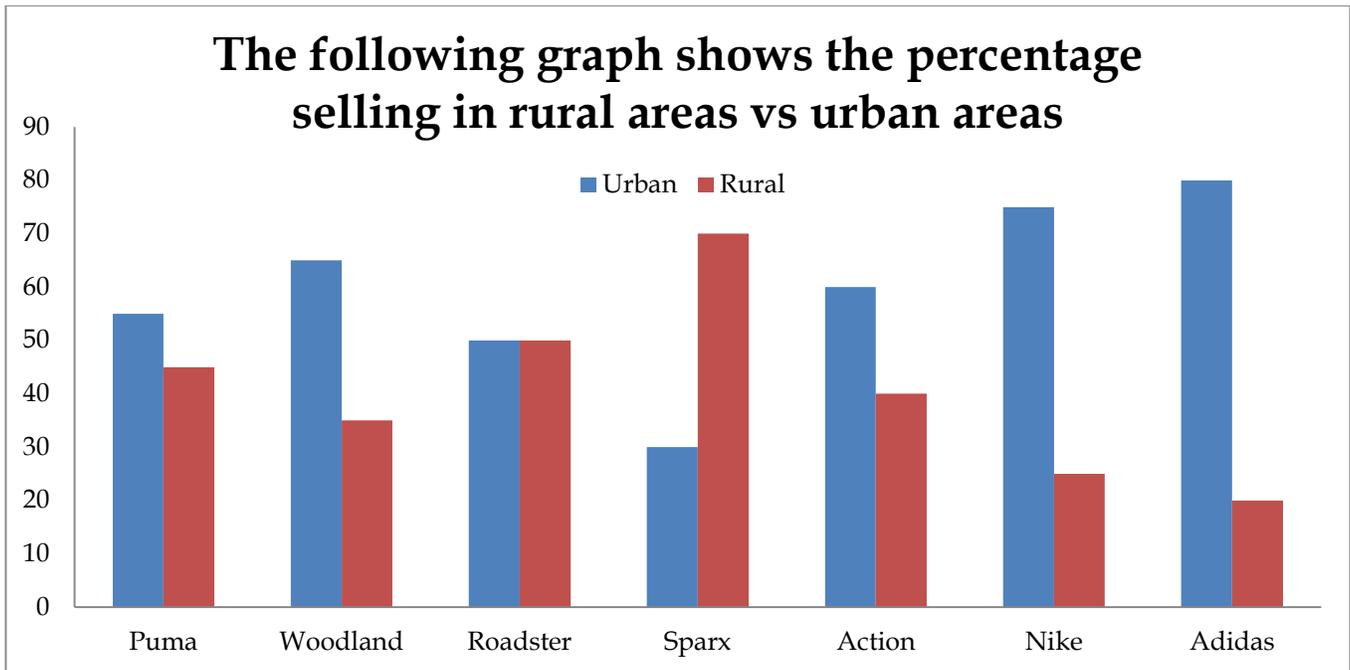
- (a) 48
- (b) 52
- (c) 56
- (d) 58
- (e) 60

Directions (16-20): Study the following graph and answer the questions accordingly:

The following pie-chart shows the production of shoes in India during the month of May 2016



The following graph shows the percentage selling in rural areas vs urban areas



Q16. What is the difference between the sale of Woodland in urban areas and that of Nike in rural areas ?

- (a) 693342
- (b) 683750
- (c) 682503
- (d) 721050
- (e) 713394



Q17. Which company sells maximum number of shoes in rural areas ?

- (a) Sparx
- (b) Roadster
- (c) Action
- (d) Nike
- (e) Puma

Q18. What percent of the total number of shoes were sold in urban areas ?

- (a) 53.7%
- (b) 55.4%
- (c) 51.9%
- (d) 54.2%
- (e) 60.2%



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Q19. The sale of Adidas in urban areas is how many percent less/more than sale of Sparx in urban areas?

- (a) 61.23% less
- (b) 59.34% less
- (c) 68.42% more
- (d) 67.52% more
- (e) 60.2% less

Q20. How many Puma shoes sold in rural areas ?

- (a) 745340
- (b) 756880
- (c) 798340
- (d) 793941
- (e) None of these

Directions (Q.21-25): In each of these questions a number series is given. Below the series one number is given followed by (a), (b), (c), (d) and (e) You have to complete this series following the same logic as in the original series and answer the question that follows.

Q21. 5, 9, 25, 91, 414, 2282.5

3 (a) (b) (c) (d) (e)

What will come in place of (c) ?

- (a) 63.25
- (b) 63.75
- (c) 64.25
- (d) 64.75
- (e) None of these



Q22. 15, 9, 8, 12, 36, 170

19 (a) (b) (c) (d) (e)

What will come in place of (b) ?

- (a) 18
- (b) 16
- (c) 22
- (d) 24
- (e) None of these

Q23. 7, 6, 10, 27, 104, 515

9 (a) (b) (c) (d) (e)

What will come in place of (d) ?

- (a) 152
- (b) 156
- (c) 108
- (d) 112
- (e) None of these



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Q24. 6, 16, 57, 244, 1245, 7506

4 (a) (b) (c) (d) (e)

What will come in place of (d) ?

- (a) 985
- (b) 980
- (c) 1004
- (d) 1015
- (e) None of these

Q25. 8, 9, 20, 63, 256, 1285

5 (a) (b) (c) (d) (e)

What will come in place of (e)

- (a) 945
- (b) 895
- (c) 925
- (d) 845
- (e) None of these

Directions (26-30): Study the following table carefully to answer these questions:-

Details of the seat belts produced by different companies over the years:-

Year	Company											
	A		B		C		D		E		F	
	N	D	N	D	N	D	N	D	N	D	N	D
2011	28	0.8	18	0.4	34	1.4	29	1.4	24	1.5	44	2.2
2012	32	1	26	1.2	31	1.2	34	1.2	26	2	38	1.6
2013	24	0.5	23	0.5	28	1.5	23	0.8	35	2.2	32	1.3
2014	22	0.6	33	1.4	36	1.9	18	0.4	31	1.8	28	0.9
2015	30	1.2	38	0.8	40	2.1	33	1.8	37	2	42	1.5
2016	25	0.8	40	2	42	2.2	45	2.5	41	2.2	19	0.4

N → Number of seat belts produced (in lakh)

D → Percentage of defective belts

Q26. What was the number of defective seat belts produced by company B, C and E together in year 2014 ? (in Lakhs)

- (a) 2.70
- (b) 1.704
- (c) 1.50
- (d) 1.20
- (e) 1.80

Q27. What was percentage increase/decrease in total production by all companies together from 2012 to 2013? (rounded off to the two decimal place)

- (a) 10.76
- (b) 11.26
- (c) 12.26
- (d) 11.77
- (e) None of these

Q28. What is the ratio of the average production of company A to that of B for all the given years ?

- (a) 161 : 178
- (b) 149 : 161
- (c) 137 : 178
- (d) 137 : 149
- (e) None of these



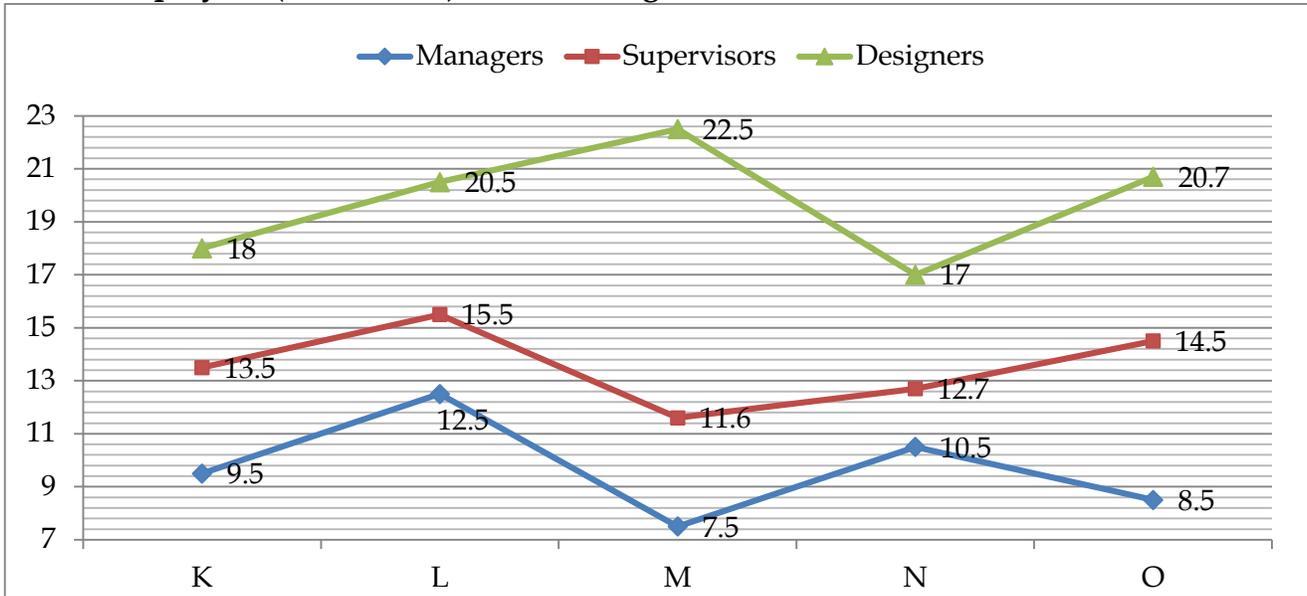
Q29. What percentage of total items produced by company F in 2011, 2015 and 2016 together are defective?

- (a) 1.4
- (b) 0.9
- (c) 1.6
- (d) 2.1
- (e) 2.6

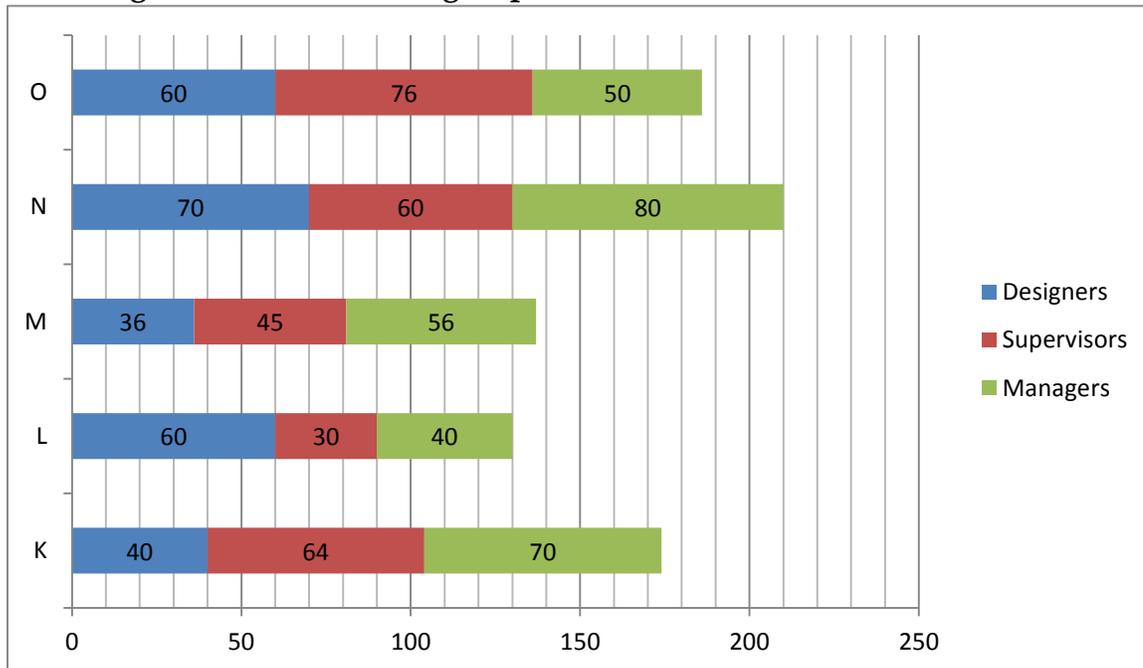
Q30. What was the average number of perfect seat belts produced by company D in 2013, 2014 and 2015 together? (in lakh)

- (a) 29.38
- (b) 23.46
- (c) 26.76
- (d) 22.16
- (e) 24.39

Directions (Q.31-35): Study the following graphs carefully to answer the questions that follow.
 Number of employees (in hundred) of three categories in 5 factories



Percentage of females in each group



Q31. The females in Manager post in company M can finish a certain piece of work in 20 days. After they began to work, 20 females left the work after every 5 days. Find the number of days required to complete the work.

- (a) $21\frac{3}{17}$ days
- (b) $21\frac{13}{17}$ days
- (c) $21\frac{13}{19}$ days
- (d) $20\frac{13}{17}$ days
- (e) None of these

Q32. Find the average number of males in Manager post in all factories together .

- (a) 305
- (b) 325
- (c) 450
- (d) 400
- (e) None of these

Q33. By what percent the males in Designer post in factories M and N together are more or less than the females on Supervisor post in factories K and L together ?

- (a) 43.8%
- (b) 46.7%
- (c) 42.3%
- (d) 44.2%
- (e) 40.2%

Q34. The average age of male designers in factory N is 74 years. Two-fifth of them have average age of 76 years, 50% of remaining have average age 4 years less that of all male designers. Find the average age of remaining male designers.

- (a) 74 year 5 month
- (b) 72 year 4 month
- (c) 75 year 4 month
- (d) 75 year 6 month
- (e) None of these

Q35. Find the ratio of total female designers in factories M and N together and female Managers in factory L.

- (a) 3 : 2
- (b) 4 : 1
- (c) 3 : 1
- (d) 2 : 1
- (e) None of these

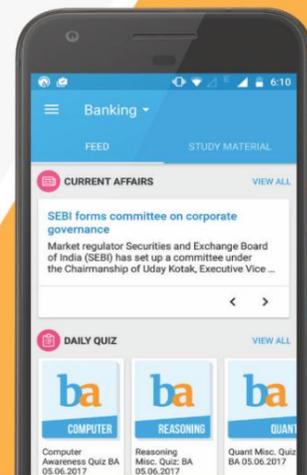
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