

DATA ANALYSIS AND INTERPRETATION

Directions (Qs. 1 to 5) : What approximate value will come in place of the question mark (?) in the following questions ?

1. 32.05% of $259.99 = ?$
 (1) 92 (2) 88 (3) 78
 (4) 90 (5) 83
2. $\frac{1}{8}$ of $\frac{2}{3}$ of $\frac{3}{5}$ of $1715 = ?$
 (1) 80 (2) 85 (3) 90
 (4) 95 (5) 75
3. $25.05 \times 123.95 + 388.999 \times 15.001 = ?$
 (1) 900 (2) 8950
 (3) 8935 (4) 8975
 (5) 8995
4. $561 \div 35.05 \times 19.99 = ?$
 (1) 320 (2) 330
 (3) 315 (4) 325
 (5) 335
5. $(15.01)^2 \times \sqrt{730} = ?$
 (1) 6125 (2) 6225
 (3) 6200 (4) 6075
 (5) 6250

Directions (Qs. 6 to 10) : In each of these questions a number series is given. In each series only one number is wrong. Find out the wrong number.

6. 3601 3602 1803 604 154
36 12
 (1) 3602 (2) 1803
 (3) 604 (4) 154
 (5) 36
7. 4 12 42 196 1005 6066 42511
 (1) 12 (2) 42
 (3) 1005 (4) 196
 (5) 6066
8. 2 8 12 20 30 42 56
 (1) 8 (2) 42
 (3) 30 (4) 20
 (5) 12
9. 32 16 24 65 210 945 5197.5
 (1) 945 (2) 16
 (3) 24 (4) 210
 (5) 65
10. 7 13 25 49 97 194 385
 (1) 13 (2) 49
 (3) 97 (4) 194
 (5) 25

11. Mr. X invested a certain amount in Debt and Equity Funds in the ratio of 4 : 5 respectively. At the end of one year, he earned a total dividend of 30% on his investment. After one year he reinvested the amount including dividend

in the ratio of 6 : 7 in Debt and Equity Funds. If the amount reinvested in Equity Funds was Rs. 94,500, what was the original amount invested in Equity Funds ?

- (1) Rs. 75,000
- (2) Rs. 81,000
- (3) Rs. 60,000
- (4) Rs. 65,000
- (5) None of these

12. Father's age is 30 years more than the son's age. Ten years hence the father's age will become three times the son's age that time. What is son's present age in years ?

- (1) 8
- (2) 7
- (3) 5
- (4) Cannot be determined
- (5) None of these

13. If the length of a rectangular field is increased by 20% and the breadth is reduced by 20%, the area of the rectangle will be 192 m^2 . What is the area of the original rectangle ?

- (1) 184 m^2
- (2) 196 m^2
- (3) 204 m^2
- (4) 225 m^2
- (5) None of these

14. Product of one-third of a number and 150% of another number is what percent of the product of original number ?

- (1) 80
- (2) 50
- (3) 75
- (4) 120
- (5) None of these

15. Inside a square plot a circular garden is developed which exactly fits in the square plot and the diameter of the garden is equal to the side of the square plot which is 28 metres. What is the area of the space left out in the square plot after developing the garden ?

- (1) 98 m^2
- (2) 146 m^2
- (3) 84 m^2
- (4) 168 m^2
- (5) None of these

16. Amit and Sujit together can complete an assignment of data entry in 5 days. Sujit's speed is 80% of Amit's speed and the total key depressions in the assignment are 5,76,000. What is Amit's speed in key depressions per hour if they work for 8 hours a day ?

- (1) 4800
- (2) 6400
- (3) 8000
- (4) 7200
- (5) None of these

17. Out of 5 girls and 3 boys, 4 children are to be randomly selected for a quiz contest. What is the probability that all are girls ?

- (1) $\frac{1}{14}$
- (2) $\frac{1}{7}$
- (3) $\frac{5}{17}$
- (4) $\frac{2}{17}$
- (5) None of these

18. Profit earned by an organization is distributed among officers and clerks in the ratio of 5 : 3 respectively. If the number of officers is 45 and the number of clerks is 80 and the amount received by each officer is Rs. 25,000, what was the total amount of profit earned ?

- (1) Rs. 22 lakhs
- (2) Rs. 18.25 lakhs
- (3) Rs. 18 lakhs
- (4) Rs. 23.25 lakhs
- (5) None of these

19. A shopkeeper labelled the price of his articles so as to earn a profit of 30% on the cost price. He then sold the articles by offering a discount of 10% on the labelled price. What is the actual percent profit earned in the deal ?

- (1) 18%
- (2) 15%
- (3) 20%
- (4) Cannot be determined
- (5) None of these

20. Mr. Shamin's salary increases every year by 10% in June. If there is no other increase or reduction in the salary and his salary in June 2011 was Rs. 22,385, what was his salary in June 2009 ?

- (1) Rs. 18,650
- (2) Rs. 18,000
- (3) Rs. 19,250
- (4) Rs. 18,500
- (5) None of these

Directions (Qs. 21 to 25) : In each of these questions, one question is given followed by data in three Statements I, II and III. You have to study the question and the data in

statements and decide the question can be answered with data in which of the Statements and mark your answer accordingly.

21. What is the rate of interest p.c.pa. ?

Statements :

I. Difference between the compound interest and simple interest earned in two years on the amount invested is Rs. 100.

II. The amount becomes Rs. 19,500 in three years on simple interest.

III. Simple interest accrued in two years on the same amount at the same rate of interest is Rs. 3,000.

- (1) Only I and II
- (2) Only I and III
- (3) Only II and III
- (4) Only I and either II or III
- (5) None of these

22. What is the speed of the train in kmph. ?

Statements :

I. The train crosses an 'x' metre long platform in 'n' seconds.

II. Length of the train is 'y' metres.

III. The train crosses a signal pole in 'm' seconds.

- (1) Any two of the three
- (2) Only II and III
- (3) Only I and III
- (4) All I, II and III
- (5) Question cannot be answered even with information in all three statements.

23. How many students passed in first class ?

Statements :

I. 85% of the students who appeared in examination have passed either in first class or in second class or in pass class.

II. 750 students have passed in second class.

III. Number of students passed in pass class is 28% of those passed in second class.

- (1) All I, II and III
- (2) Only I and III
- (3) Only II and III
- (4) Question cannot be answered even with information in all three statements
- (5) None of these

24. What is the amount invested in Scheme 'B' ?

Statements :

I. The amounts invested in 'A' and 'B' are in the ratio of 2 : 3 respectively.

II. Amount invested in Scheme 'A' is 40% of the total amount invested.

III. Amount invested in Scheme 'A' is Rs. 45,000.

- (1) Only I and II
- (2) Only I and III
- (3) Only II and III
- (4) All I, II and III
- (5) Only III and either I or II

25. What is the cost of flooring the rectangular hall ?

Statements :

I. Length of the rectangle is 6 metres.

II. Breadth of the rectangle is two-thirds of its length.

III. Cost of flooring the area of 100 cm^2 is Rs. 45.

- (1) Only I and III
- (2) Only II and III
- (3) All I, II and III
- (4) Question cannot be answered with data in all three statements
- (5) None of these

26. If the profit earned in 2006 by Company B was Rs. 8,12,500 what was the total income of the Company in that year ?

- (1) Rs. 12,50,000
- (2) Rs. 20,62,500
- (3) Rs. 16,50,000
- (4) Rs. 18,25,000
- (5) None of these

27. If the amount invested by the two Companies in 2005 was equal, what was the ratio between total income in 2005 of the Companies A and B respectively ?

- (1) 31 : 33
- (2) 33 : 31
- (3) 34 : 31
- (4) 14 : 11
- (5) None of these

28. If the total amount invested by the two Companies in 2009 was Rs. 27 lakhs, while the amount invested by Company B was 50% of the amount invested by Company A, what was the total profit earned by the two Companies together ?

- (1) Rs. 21.15 lakhs
- (2) Rs. 20.70 lakhs
- (3) Rs. 18.70 lakhs
- (4) Rs. 20.15 lakhs
- (5) None of these

29. If the incomes of Company A in 2007 and 2008 were equal and the amount invested in 2007 was Rs.12 lakhs, what was the amount invested in 2008 ?

- (1) Rs. 10,87,500
- (2) Rs. 10,85,700
- (3) Rs. 12,45,000
- (4) Rs. 12,85,000
- (5) None of these

30. If the amount of profit earned by Company A in 2006 was Rs. 10.15 lakhs, what was the total investment ?

- (1) Rs. 13.8 lakhs
- (2) Rs. 14.9 lakhs
- (3) Rs. 15.4 lakhs
- (4) Rs. 14.2 lakhs
- (5) None of these

31. If the amount invested by Company B in 2004 is Rs. 12 lakhs and the income of 2004 is equal to the investment in 2005, what was the amount of profit earned in 2005 by Company B ?

- (1) Rs. 6.6 lakhs
- (2) Rs. 18.6 lakhs
- (3) Rs. 10.23 lakhs
- (4) Rs. 9.6 lakhs
- (5) None of these

32. If the investments of Company A in 2007 and 2008 were equal, what is the difference between profit earned in two years if the income in 2008 was Rs. 24 lakhs ?

- (1) Rs. 2.25 lakhs
- (2) Rs. 3.6 lakhs
- (3) Rs. 1.8 lakhs
- (4) Rs. 2.6 lakhs
- (5) None of these

33. If each of the Companies A and B invested Rs. 25 lakhs in 2010, what was the average profit earned by the two Companies ?

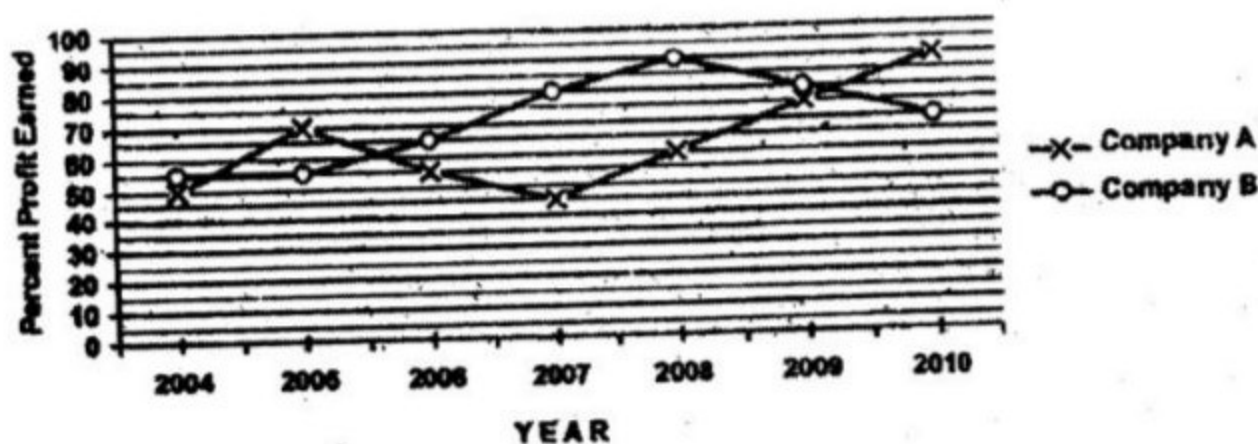
- (1) Rs. 18 lakhs
- (2) Rs. 22.5 lakhs
- (3) Rs. 17.5 lakhs
- (4) Rs. 20 lakhs
- (5) None of these

Directions (Qs. 26 to 33) : Study the following graph carefully to answer these questions.

Percent Profit Earned by Two Companies Producing Electronic Goods over the Years

$$\% \text{ Profit} = \frac{\text{Profit Earned}}{\text{Total Investment}} \times 100$$

$$\text{Profit Earned} = \text{Total Income} - \text{Total Investment in the Year}$$



Directions (Qs. 34 to 40) : Study the following table carefully and answer the questions which follow.

Number of Candidates found Eligible and the Number of Candidates Short-listed for Interviews for a recent Recruitment Process for Six Posts from Different States

Post State	I		II		III		IV		V		VI	
	E	S	E	S	E	S	E	S	E	S	E	S
A	2500	65	7200	240	5200	76	3600	200	4600	110	5400	380
B	3200	220	8500	420	8400	190	6200	320	5800	180	6200	430
C	2800	280	4500	350	7600	160	8200	440	7300	310	3700	250
D	2400	85	4800	200	2600	55	7500	350	3900	160	4800	360
E	3000	120	5600	280	3800	75	6800	280	6100	260	7800	520
F	4800	325	6400	320	4400	220	4700	180	4900	220	8800	640
G	6500	550	7000	140	6000	325	5500	220	8100	410	2700	200

E-Eligible S-Short-listed

34. From State 'B', which post had the highest percentage of candidates short-listed ?

- (1) V (2) IV (3) VI
(4) II (5) None of these

35. Approximately, what is the average number of candidates found eligible from all States for Post III ?

- (1) 6700 (2) 6200 (3) 4200
(4) 4500 (5) 5500

36. What is the overall percentage (rounded off to one digit after decimal) of candidates short-listed over the total number of candidates eligible from all the States together for Post I ?

- (1) 9.5% (2) 12.5% (3) 7.2%
(4) 6.5% (5) None of these

37. What is the ratio between total number of candidates short-listed for all the posts together from States E and G respectively ?

- (1) 307 : 369 (2) 73 : 79
(3) 6 : 5 (4) 9 : 7
(5) None of these

38. Total number of candidates found eligible from all States together for Post is approximately what percent of the total number of candidates found eligible from all States together for Post VI ?

- (1) 45 (2) 50 (3) 60
(4) 55 (5) 65

39. Which State had the lowest percentage of candidates short-listed over eligible for Post IV ?

- (1) G (2) F (3) E
(4) C (5) None of these

40. What is the ratio between total number of candidates short-listed from all States together for posts V and VI respectively ?

- (1) 6 : 7 (2) 55 : 96
(3) 165 : 278 (4) 16 : 25
(5) None of these

Directions (Qs. 41 to 45) : These questions are based on the following data. Study it carefully and answer the questions that follow.

In a school having 400 students boys and girls are in the ratio of 3 : 5

respectively. The students speak Hindi, English or both the languages. 12% of the boys speak only Hindi, 22% of the girls speak only English. 24% of the total students speak only Hindi and the number of boys speaking both the languages is six times the number of boys speaking only Hindi.

41. Total how many boys speak Hindi ?

- (1) 18 (2) 126 (3) 108
(4) 26 (5) None of these

42. How many girls speak only Hindi ?

- (1) 55 (2) 117 (3) 96
(4) 78 (5) None of these

43. Total how many students speak English ?

- (1) 304 (2) 79 (3) 225
(4) 117 (5) None of these

44. Number of girls speaking only Hindi is what percent of the total number of students speaking only Hindi ?

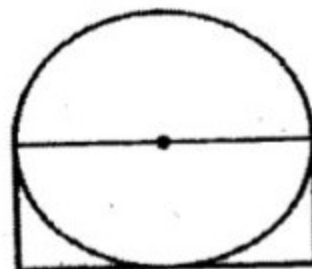
- (1) 38.2 (2) 71.8
(3) 31.2 (4) 78
(5) None of these

45. What is the respective ratio between the number of boys and girls speaking both the languages ?

- (1) 23 : 25
(2) 12 : 25
(3) 12 : 13
(4) 25 : 13
(5) None of these

Directions (Qs. 46 to 50) : Study the information given in each of these questions and then answer the questions.

46. Area of the circle is 616 cm^2 . What is the area of the rectangle ? ('dot' indicates centre of the circle)



- (1) 784 cm^2 (2) 196 cm^2
(3) 392 cm^2
(4) Cannot be determined
(5) None of these

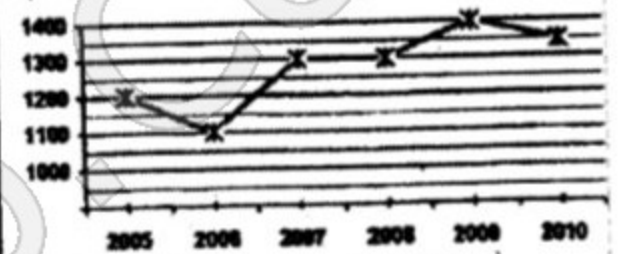
47. **Population in Millions**

City	Total Population	Male Population
A	12	6.5
B	15	7.2
C	17	9.0
D	19	9.9
E	22	10.8

What is the average female population in million ?

- (1) 8.32 (2) 8.86 (3) 8.68
(4) 9.12 (5) None of these

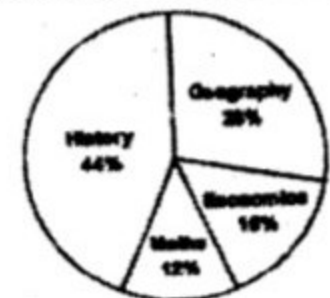
48. What is the percent rise in production in 2007 from 2006 ? (Rounded off to two digits after decimal)



- (1) 28.18 (2) 18.18
(3) 16.28 (4) 26.18
(5) None of these

49. Out of the total 550 students, how many students did not prefer Maths or Economics ?

Break-up of students having preference for each subject



- (1) 462 (2) 154 (3) 196
(4) 396 (5) None of these

50.

Person	Salary in Rs. Lakhs
A	8.5
B	7.6
C	12.8
D	5.4
E	10.5

What is the difference (in Rs. lakhs) between the average salary and the lowest salary ?

- (1) 4.2 (2) 2.65
(3) 3.65 (4) 4.06
(5) None of these

REASONING

Directions (Qs. 1 to 3) : Four of the following five are alike in a certain way and hence form a group. Which is the one that does not belong to the group ?

- 1.
- | | |
|--------------|------------|
| (1) Break | (2) Change |
| (3) Split | (4) Divide |
| (5) Separate | |

- 2.
- | | |
|-------------|--------------|
| (1) Train | (2) Instruct |
| (3) Educate | (4) Advocate |
| (5) Coach | |

- 3.
- | | |
|------------|------------|
| (1) Extend | (2) Higher |
| (3) Upward | (4) Rise |
| (5) Ascend | |

4. Which of the following symbols should replace the question mark in the given expression in order to make the expressions 'A > D' as well as 'F ≥ C' definitely true ?

$$A > B \geq C ? D \leq E = F$$

- | | |
|-------------------|-------|
| (1) > | (2) < |
| (3) ≤ | (4) = |
| (5) Either = or ≥ | |

5. In which of the following expressions will the expressions 'R < P' as well as 'S > Q' be definitely true ?

- | |
|-----------------------|
| (1) P > Q = R ≤ T < S |
| (2) S > T ≥ R > Q < P |
| (3) Q > R ≤ T > P ≥ S |
| (4) S > T ≥ R > Q > P |
| (5) None of these |

6. Read the following information carefully and answer the question which follows :

- If 'A × B' means 'A is father of B'.
- If 'A + B' means 'A is daughter of B'.
- If 'A ÷ B' means 'A is son of B'.
- If 'A - B' means 'A is sister of B'.

What will come in place of the question mark, to establish that P is the son-in-law of S in the expression ?

- 'P × Q + R - T ? S'
- | | |
|-------------------|-------|
| (1) + | (2) × |
| (3) - | (4) ÷ |
| (5) Either + or ÷ | |

Directions (Qs. 7 to 12) : Study the following information to answer the given questions :

Twelve people are sitting in two parallel rows containing six people each, in such a way that there is an equal distance between adjacent persons. In row-1 P, Q, R, S, T and V are seated and all of them are facing South. In row-2 A, B, C, D, E and F are seated and all of them are facing

North. Therefore, in the given seating arrangement each member seated in a row faces another member of the other row.

S sits third to right of Q. Either S or Q sits at an extreme end of the line. The one who faces Q sits second to right of E. Two people sit between B and F. Neither B nor F sits at an extreme end of the line. The immediate neighbour of B faces the person who sits third to left of P. R and T are immediate neighbours of each other. C sits second to the left of A. T does not face the immediate neighbour of D.

7. Who amongst the following sit at extreme ends of the rows ?

- | | |
|----------|----------|
| (1) S, D | (2) Q, A |
| (3) V, C | (4) P, D |
| (5) Q, F | |

8. Who amongst the following faces S ?

- | | |
|-------|-------|
| (1) A | (2) B |
| (3) C | (4) D |
| (5) F | |

9. How many persons are seated between V and R ?

- | | |
|-----------|----------|
| (1) One | (2) Two |
| (3) Three | (4) Four |
| (5) None | |

10. P is related to A in the same way as S is related to B based on the given arrangement. To which of the following is T related to, following the same pattern ?

- | | |
|--------------------------|-------|
| (1) C | (2) D |
| (3) E | (4) F |
| (5) Cannot be determined | |

11. Which of the following is true regarding T ?

- | |
|---|
| (1) F faces T |
| (2) V is an immediate neighbour of T |
| (3) F faces the one who is second to right of T |
| (4) T sits at one of the extreme ends of the line |
| (5) Q sits second to the right of T |

12. Four of the following five are alike in a certain way based on the given arrangement and so form a group. Which is the one that does not belong to that group ?

- | | |
|-----------|-----------|
| (1) A - T | (2) B - T |
| (3) F - P | (4) C - V |
| (5) E - Q | |

Directions (Qs. 13 to 17) : Each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are

sufficient to answer the question. Read both the statements and give answer—

(1) if the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.

(2) if the data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.

(3) if the data either in statement I alone or in statement II alone are sufficient to answer the question.

(4) if the data even in both statements I and II together are not sufficient to answer the question.

(5) if the data in both statements I and II together are necessary to answer the question.

13. Which bag amongst P, Q, R, S and T is the heaviest ?

I. Bag Q is heavier than R and S. Bag T is heavier only than bag P.

II. Only three bags are lighter than R. The weight of bag Q is 50 kg which is 2 kg more than bag R.

14. Are all the five friends viz. A, B, C, D and E who are seated around a circular table facing the centre ?

I. A sits third to the left of B. B faces the centre. D and E are immediate neighbours of each other. C sits second to right of E.

II. D sits second to right of C. C faces the centre. Both E and A are immediate neighbours of D. B sits second to right of A.

15. In a college five different subjects, viz. Physics, Chemistry, Botany, Zoology and Mathematics are taught on five different days of the same week, starting from Monday and ending on Friday.

Is Chemistry taught on Wednesday ?

I. Two subjects are taught between Zoology and Mathematics. Mathematics is taught before Zoology. Chemistry is taught on the day immediately next to the day when Physics is taught. Botany is not taught on Friday.

II. Three lectures are scheduled between the lectures of Botany and Zoology. Mathematics is taught immediately before Physics.

16. Is the time in the clock 9 O'clock now ?

- I. After half an hour, the minute and the hour hands of the clock will make an angle of exactly 90° with each other.
- II. Exactly 15 minutes back, the hour and the minute's hand of the clock coincided with each other.

17. Is F the granddaughter of B ?

- I. B is the father of M. M is the sister of T. T is the mother of F.
- II. S is the son of F. V is the daughter of F. R is the brother of T.

Directions (Qs. 18 to 20) : Study the following information to answer the given questions :

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement (All the numbers are two digits numbers and are arranged as per some logic based on the value of the number.)

- Input : win 56 32 93 bat for 46 him 28 11 give chance
- Step I : 93 56 32 bat for 46 him 28 11 give chance win
- Step II : 11 93 56 32 bat for 46 28 give chance win him
- Step III : 56 11 93 32 bat for 46 28 chance win him give
- Step IV : 28 56 11 93 32 bat 46 chance win him give for
- Step V : 46 28 56 11 93 32 bat win him give for chance
- Step VI : 32 46 28 56 11 93 win him give for chance bat
- and Step VI is the last Step of the arrangement of the above input as the intended arrangement is obtained.

As per the rules followed in the above steps, find out in each of the following questions the appropriate steps for the given input.

Input for the questions :

Input : fun 89 at the 28 16 base camp 35 53 here 68

(All the numbers given in the arrangement are two digit numbers.)

18. Which of the following would be the Step II ?

- (1) 89 fun at 28 16 base camp 35 53 here 68 the
- (2) 35 53 28 68 16 89 the here fun camp base at
- (3) 16 89 at fun 28 camp base 35 53 68 the here
- (4) 53 28 68 16 89 35 the here fun camp base at
- (5) None of these

19. Which word/number would be at 7th Position from the left in Step IV ?

- (1) base
- (2) at
- (3) 35
- (4) the
- (5) 53

20. Which step number would be the following output ?

53 28 68 16 89 at 35 the here fun camp base

- (1) There will be no such step
- (2) III
- (3) II
- (4) V
- (5) IV

Directions (Qs. 21 to 27) : Study the following information carefully and answer the given questions :

Eight colleagues, A, B, C, D, E, F, G and H are sitting around a circular table facing the centre but not necessarily in the same order. Each one of them holds a different post viz. Manager, Company Secretary, Chairman, President, Vice-President, Group Leader, Financial Advisor and Managing Director.

A sits third to right of the Managing Director. Only two people sit between the Managing Director and H. Vice President and the Company Secretary are immediate neighbours of each other. Neither A nor H is a Vice President or a Company Secretary. Vice President is not an immediate neighbour of the Managing Director. Manager sits second to left of E. E is not an immediate neighbour of H. The Manager is an immediate neighbour of both Group Leader and the Financial Advisor. Financial Advisor sits third to right of B. B is not the Vice President. C sits to the immediate right of the Chairman. A is not the Chairman. F is not an immediate neighbour of A. G is not an immediate neighbour of the Manager.

21. Who amongst the following sits third to the left of E ?

- (1) The Manager
- (2) G
- (3) A
- (4) The Financial Advisor
- (5) B

22. Four of the following five are alike in a certain way based on the given arrangement and thus form a group. Which is the one that does not belong to that group ?

- (1) F - Chairman
- (2) G - President
- (3) D - Manager
- (4) A - Financial Advisor
- (5) B - Managing Director

23. Who amongst the following is the President of the company ?

- (1) A
- (2) C
- (3) H
- (4) G
- (5) D

24. Which of the following is true with respect to the given seating arrangement ?

- (1) The Group Leader of the company is an immediate neighbour of the Vice-President

- (2) G sits second to right of D
- (3) The Group Leader and the Company Secretary are immediate neighbours of each other
- (4) The Chairman of the company sits to the immediate left of the Managing Director
- (5) The Group Leader sits second to the left of D

25. Which of the following posts does B hold in the company ?

- (1) Chairman
- (2) Manager
- (3) Company Secretary
- (4) Vice-President
- (5) Financial Advisor

26. Who amongst the following sit exactly between the Managing Director and H ?

- (1) H and the Chairman
- (2) B and G
- (3) The Chairman and C
- (4) F and C
- (5) E and the Group Leader

27. Who amongst the following is the Group Leader ?

- (1) C
- (2) F
- (3) G
- (4) H
- (5) A

Directions (Qs. 28 to 31) : Read the following information and the sentences (A), (B), (C), (D) and (E) given below it carefully and answer these questions :

A host of foreign companies are in talks with the Indian government for selling B 150, a tough, short haul plane ideal for connectivity of smaller towns which is lacking in India at present.

- (A) B 150 planes not only have low operating costs than competing planes like Cezana but also a much better track record in terms of safety and efficiency.
- (B) The profit margin of road transport operators in the smaller towns connected by B 150 planes has been reduced substantially as a majority of people prefer air transport over other means of transport.
- (C) Smaller towns, at present, are better connected by roads and railways as compared to flight services.
- (D) B 150 planes are capable of operating in sectors where large airlines cannot fly due to challenging conditions such as mist, short runways, etc. Such planes can also double up as cargo planes and charter flights for the rich and the elite.
- (E) B 150 planes need to operate in the existing airports which are situated in bigger cities only and are poorly connected to the smaller cities.

28. Which of the statements (A), (B), (C), (D) and (E) can be inferred from the facts/information given in the statement ?

(An inference is something which is not directly stated but can be inferred from the given facts.)

- (1) Only A (2) Only B
(3) Only C (4) Both B and D
(5) Only E

29. Which of the statements (A), (B), (C), (D) and (E) mentioned above would weaken the offer made by the foreign companies for selling B 150 planes to Indian government ?

- (1) A (2) B
(3) C (4) D
(5) E

30. Which of the statements (A), (B), (C), (D) and (E) mentioned above represents a possible consequence of the success of B 150 planes in smaller cities ?

- (1) A (2) B
(3) C (4) D
(5) E

31. Which of the statements (A), (B), (C), (D) and (E) would favour the foreign companies' bid to sell B 150 planes in India ?

- (1) Only A
(2) Only B
(3) Both B and C
(4) Both A and D
(5) Both E and C

Directions (Qs. 32 to 37) : Study the following information to answer the given questions :

In a certain code,
'always create new ideas' is written as 'ba ri sha gi',
'ideas and new thoughts' is written as 'fa gi ma ri',
'create thoughts and insights' is written as 'ma jo ba fa' and
'new and better solutions' is written as 'ki ri to fa'

32. What is the code for 'ideas' ?

- (1) sha (2) ba
(3) gi (4) ma
(5) Cannot be determined

33. What does 'fa' stand for ?

- (1) thoughts (2) insights
(3) new (4) and
(5) solutions

34. 'fa lo ba' could be a code for which of the following ?

- (1) thoughts and action
(2) create and innovate
(3) ideas and thoughts
(4) create new solutions
(5) always better ideas

35. What is the code for 'new' ?

- (1) ki (2) ri (3) to
(4) fa (5) ba

36. Which of the following may represent 'insights always better' ?

- (1) jo ki to (2) ki to ri
(3) sha jo ri (4) to sha jo
(5) sha to ba

37. What is the code for 'thoughts' ?

- (1) ma (2) fa
(3) ba (4) jo
(5) Either jo or fa

38. Read the following information carefully and answer the question which follows.

All existing and upcoming hotels within the 5 km radius of national parks and sanctuaries in India will have to pay 30% of their annual turnover as tax to the government.

Which of the following statements can be inferred from the facts / information given in the above statement ?

- (1) The tax collected from the hotels will be used for upkeep of these national parks and sanctuaries.
(2) Hotels which are sponsored by the government will not have to pay any tax even if these are located within the 5 km radius of such wildlife hotspots.
(3) Ecosystem of the national parks and sanctuaries is adversely affected even if the hotels are located outside the 5 km radius.
(4) Government allows the construction of hotels within 5 km radius of national parks and sanctuaries.
(5) Such a step is taken by the environment ministry to boost eco-tourism and perk up

revenue collection of State governments.

39. Read the following paragraph and answer the question which follows.

Tenants' associations have demanded a 'vacancy tax' on all vacant and unsold flats in Mumbai.

Which of the following would support the demand made by the tenants' association ?

- (1) House owners too have demanded for laws that make it easier to evict tenants who default on rent payment.
(2) Such a tax law would be difficult to implement as it would be difficult to record the number of vacant flats in the city.
(3) People with surplus money buy many houses and rent these out while many consumers cannot afford even their first house.
(4) The number of vacant flats in Mumbai is much lower than other metros such as Delhi and Chennai where vacancy tax already exists.
(5) Such a tax would compel the house owners to sell/rent properties which in turn would control hoarding and sky rocketing of property prices.

Directions (Qs. 40 to 45) : In each question below are two/three statements followed by two conclusions numbered I and II. You have to take the two/three given statements to be true even if they seem to be at variance from commonly known facts and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts. Give answer—

- (1) if only conclusion I follows.
(2) if only conclusion II follows.
(3) if either conclusion I or conclusion II follows.
(4) if neither conclusion I nor conclusion II follows.
(5) if both conclusion I and conclusion II follow.

40. **Statements :**

All rings are circles.
All squares are rings.
No ellipse is a circle.

Conclusions :

- I. Some rings being ellipses is a possibility.
II. At least some circles are squares.

41. **Statements :**

No house is an apartment.
Some bungalows are apartments.

Conclusions :

- I. No house is a bungalow.
II. All bungalows are houses.

42. **Statements :**

Some gases are liquids.
All liquids are water.

Conclusions :

I. All gases being water is a possibility.

II. All such gases which are not water can never be liquids.

43. Statements :

All minutes are seconds.

All seconds are hours.

No second is a day.

Conclusions :

I. No day is an hour.

II. At least some hours are minutes.

Directions (Qs. 44 & 45) :

Statements :

Some teachers are professors.

Some lecturers are teachers.

44. Conclusions :

I. All teachers as well as all professors being lecturers is a possibility.

II. All those teachers who are lecturers are also professors.

45. Conclusions :

I. No professor is a lecturer.

II. All lecturers being professors is a possibility.

Directions (Qs. 46 to 50) : In each of the questions given below which one of the five answer figures on the right should come after the problem figures on the left, if the sequence were continued ?

46. Problem Figures

□	S	*	C	O	△	B	*	△	E
△	E	E	△	B	□	K	E	□	S
C	*	S	□	K	L	C	S	L	O
O	B	K	L	O	B	K	C	*	E

Answer Figures

B	S	O	□	L	O	O	L	□	B
K	O	S	L	S	□	S	□	*	K
C	*	E	△	△	E	E	△	L	C
E	△	□	L	C	*	B	K	C	*

1 2 3 4 5

47. Problem Figures

C	C	C	C	U	U	C	C	O	O	U	U	U	U	C	C	U	U
C	C	C	C	C	C	C	C	C	C	C	C	U	U	C	C	O	O
C	C	C	C	C	C	C	C	C	C	C	C	U	U	U	U	O	O
C	C	C	C	C	C	U	U	O	O	O	O	U	U	C	C	U	U

Answer Figures

U	U	C	C	C	U	O	O	C	C	O	O	C	U	U	U	C	C
U	U	O	O	O	O	O	C	C	C	U	U	C	C	U	U	O	O
O	O	U	U	C	C	O	O	C	C	U	U	U	O	O	U	U	O
C	C	U	U	U	C	C	U	U	C	C	O	O	O	C	C	U	U

1 2 3 4 5

48. Problem Figures

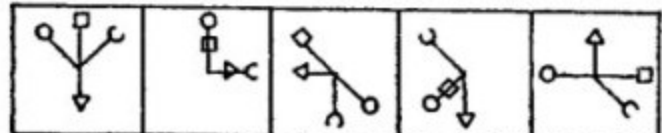


Answer Figures



1 2 3 4 5

49. Problem Figures



Answer Figures



1 2 3 4 5

50. Problem Figures

= HOLE	K O H E L	E L K * H	L E C H *	C □ L * H
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Answer Figures

S □ L H *	S L □ H *	S L □ * H	C * L S □	S □ L H *
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1 2 3 4 5

DATA ANALYSIS AND INTERPRETATION

Directions (Qs. 1 to 5) : What approximate value will come in place of the question mark (?) in the following questions ?

1. 32.05% of $259.99 = ?$
 (1) 92 (2) 88 (3) 78
 (4) 90 (5) 83
2. $\frac{1}{8}$ of $\frac{2}{3}$ of $\frac{3}{5}$ of $1715 = ?$
 (1) 80 (2) 85 (3) 90
 (4) 95 (5) 75
3. $25.05 \times 123.95 + 388.999 \times 15.001 = ?$
 (1) 900 (2) 8950
 (3) 8935 (4) 8975
 (5) 8995
4. $561 \div 35.05 \times 19.99 = ?$
 (1) 320 (2) 330
 (3) 315 (4) 325
 (5) 335
5. $(15.01)^2 \times \sqrt{730} = ?$
 (1) 6125 (2) 6225
 (3) 6200 (4) 6075
 (5) 6250

Directions (Qs. 6 to 10) : In each of these questions a number series is given. In each series only one number is wrong. Find out the wrong number.

6. 3601 3602 1803 604 154
36 12
 (1) 3602 (2) 1803
 (3) 604 (4) 154
 (5) 36
7. 4 12 42 196 1005 6066 42511
 (1) 12 (2) 42
 (3) 1005 (4) 196
 (5) 6066
8. 2 8 12 20 30 42 56
 (1) 8 (2) 42
 (3) 30 (4) 20
 (5) 12
9. 32 16 24 65 210 945 5197.5
 (1) 945 (2) 16
 (3) 24 (4) 210
 (5) 65
10. 7 13 25 49 97 194 385
 (1) 13 (2) 49
 (3) 97 (4) 194
 (5) 25

11. Mr. X invested a certain amount in Debt and Equity Funds in the ratio of 4 : 5 respectively. At the end of one year, he earned a total dividend of 30% on his investment. After one year he reinvested the amount including dividend

in the ratio of 6 : 7 in Debt and Equity Funds. If the amount reinvested in Equity Funds was Rs. 94,500, what was the original amount invested in Equity Funds ?

- (1) Rs. 75,000
- (2) Rs. 81,000
- (3) Rs. 60,000
- (4) Rs. 65,000
- (5) None of these

12. Father's age is 30 years more than the son's age. Ten years hence the father's age will become three times the son's age that time. What is son's present age in years ?

- (1) 8
- (2) 7
- (3) 5
- (4) Cannot be determined
- (5) None of these

13. If the length of a rectangular field is increased by 20% and the breadth is reduced by 20%, the area of the rectangle will be 192 m^2 . What is the area of the original rectangle ?

- (1) 184 m^2
- (2) 196 m^2
- (3) 204 m^2
- (4) 225 m^2
- (5) None of these

14. Product of one-third of a number and 150% of another number is what percent of the product of original number ?

- (1) 80
- (2) 50
- (3) 75
- (4) 120
- (5) None of these

15. Inside a square plot a circular garden is developed which exactly fits in the square plot and the diameter of the garden is equal to the side of the square plot which is 28 metres. What is the area of the space left out in the square plot after developing the garden ?

- (1) 98 m^2
- (2) 146 m^2
- (3) 84 m^2
- (4) 168 m^2
- (5) None of these

16. Amit and Sujit together can complete an assignment of data entry in 5 days. Sujit's speed is 80% of Amit's speed and the total key depressions in the assignment are 5,76,000. What is Amit's speed in key depressions per hour if they work for 8 hours a day ?

- (1) 4800
- (2) 6400
- (3) 8000
- (4) 7200
- (5) None of these

17. Out of 5 girls and 3 boys, 4 children are to be randomly selected for a quiz contest. What is the probability that all are girls ?

- (1) $\frac{1}{14}$
- (2) $\frac{1}{7}$
- (3) $\frac{5}{17}$
- (4) $\frac{2}{17}$
- (5) None of these

18. Profit earned by an organization is distributed among officers and clerks in the ratio of 5 : 3 respectively. If the number of officers is 45 and the number of clerks is 80 and the amount received by each officer is Rs. 25,000, what was the total amount of profit earned ?

- (1) Rs. 22 lakhs
- (2) Rs. 18.25 lakhs
- (3) Rs. 18 lakhs
- (4) Rs. 23.25 lakhs
- (5) None of these

19. A shopkeeper labelled the price of his articles so as to earn a profit of 30% on the cost price. He then sold the articles by offering a discount of 10% on the labelled price. What is the actual percent profit earned in the deal ?

- (1) 18%
- (2) 15%
- (3) 20%
- (4) Cannot be determined
- (5) None of these

20. Mr. Shamin's salary increases every year by 10% in June. If there is no other increase or reduction in the salary and his salary in June 2011 was Rs. 22,385, what was his salary in June 2009 ?

- (1) Rs. 18,650
- (2) Rs. 18,000
- (3) Rs. 19,250
- (4) Rs. 18,500
- (5) None of these

Directions (Qs. 21 to 25) : In each of these questions, one question is given followed by data in three Statements I, II and III. You have to study the question and the data in

statements and decide the question can be answered with data in which of the Statements and mark your answer accordingly.

21. What is the rate of interest p.c.pa. ?

Statements :

I. Difference between the compound interest and simple interest earned in two years on the amount invested is Rs. 100.

II. The amount becomes Rs. 19,500 in three years on simple interest.

III. Simple interest accrued in two years on the same amount at the same rate of interest is Rs. 3,000.

- (1) Only I and II
- (2) Only I and III
- (3) Only II and III
- (4) Only I and either II or III
- (5) None of these

22. What is the speed of the train in kmph. ?

Statements :

I. The train crosses an 'x' metre long platform in 'n' seconds.

II. Length of the train is 'y' metres.

III. The train crosses a signal pole in 'm' seconds.

- (1) Any two of the three
- (2) Only II and III
- (3) Only I and III
- (4) All I, II and III
- (5) Question cannot be answered even with information in all three statements.

23. How many students passed in first class ?

Statements :

I. 85% of the students who appeared in examination have passed either in first class or in second class or in pass class.

II. 750 students have passed in second class.

III. Number of students passed in pass class is 28% of those passed in second class.

- (1) All I, II and III
- (2) Only I and III
- (3) Only II and III
- (4) Question cannot be answered even with information in all three statements
- (5) None of these

24. What is the amount invested in Scheme 'B' ?

Statements :

I. The amounts invested in 'A' and 'B' are in the ratio of 2 : 3 respectively.

II. Amount invested in Scheme 'A' is 40% of the total amount invested.

III. Amount invested in Scheme 'A' is Rs. 45,000.

- (1) Only I and II
- (2) Only I and III
- (3) Only II and III
- (4) All I, II and III
- (5) Only III and either I or II

25. What is the cost of flooring the rectangular hall ?

Statements :

I. Length of the rectangle is 6 metres.

II. Breadth of the rectangle is two-thirds of its length.

III. Cost of flooring the area of 100 cm^2 is Rs. 45.

- (1) Only I and III
- (2) Only II and III
- (3) All I, II and III
- (4) Question cannot be answered with data in all three statements
- (5) None of these

26. If the profit earned in 2006 by Company B was Rs. 8,12,500 what was the total income of the Company in that year ?

- (1) Rs. 12,50,000
- (2) Rs. 20,62,500
- (3) Rs. 16,50,000
- (4) Rs. 18,25,000
- (5) None of these

27. If the amount invested by the two Companies in 2005 was equal, what was the ratio between total income in 2005 of the Companies A and B respectively ?

- (1) 31 : 33
- (2) 33 : 31
- (3) 34 : 31
- (4) 14 : 11
- (5) None of these

28. If the total amount invested by the two Companies in 2009 was Rs. 27 lakhs, while the amount invested by Company B was 50% of the amount invested by Company A, what was the total profit earned by the two Companies together ?

- (1) Rs. 21.15 lakhs
- (2) Rs. 20.70 lakhs
- (3) Rs. 18.70 lakhs
- (4) Rs. 20.15 lakhs
- (5) None of these

29. If the incomes of Company A in 2007 and 2008 were equal and the amount invested in 2007 was Rs.12 lakhs, what was the amount invested in 2008 ?

- (1) Rs. 10,87,500
- (2) Rs. 10,85,700
- (3) Rs. 12,45,000
- (4) Rs. 12,85,000
- (5) None of these

30. If the amount of profit earned by Company A in 2006 was Rs. 10.15 lakhs, what was the total investment ?

- (1) Rs. 13.8 lakhs
- (2) Rs. 14.9 lakhs
- (3) Rs. 15.4 lakhs
- (4) Rs. 14.2 lakhs
- (5) None of these

31. If the amount invested by Company B in 2004 is Rs. 12 lakhs and the income of 2004 is equal to the investment in 2005, what was the amount of profit earned in 2005 by Company B ?

- (1) Rs. 6.6 lakhs
- (2) Rs. 18.6 lakhs
- (3) Rs. 10.23 lakhs
- (4) Rs. 9.6 lakhs
- (5) None of these

32. If the investments of Company A in 2007 and 2008 were equal, what is the difference between profit earned in two years if the income in 2008 was Rs. 24 lakhs ?

- (1) Rs. 2.25 lakhs
- (2) Rs. 3.6 lakhs
- (3) Rs. 1.8 lakhs
- (4) Rs. 2.6 lakhs
- (5) None of these

33. If each of the Companies A and B invested Rs. 25 lakhs in 2010, what was the average profit earned by the two Companies ?

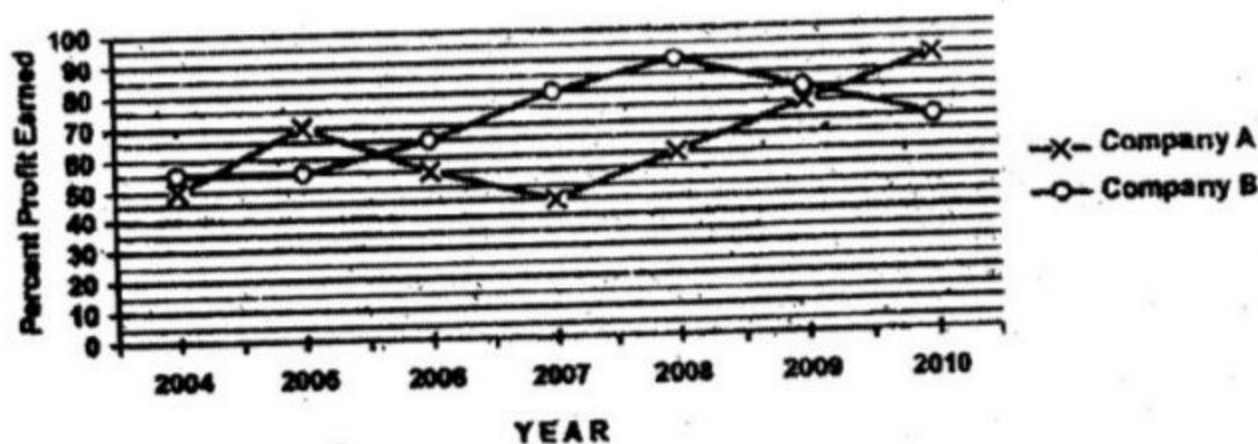
- (1) Rs. 18 lakhs
- (2) Rs. 22.5 lakhs
- (3) Rs. 17.5 lakhs
- (4) Rs. 20 lakhs
- (5) None of these

Directions (Qs. 26 to 33) : Study the following graph carefully to answer these questions.

Percent Profit Earned by Two Companies Producing Electronic Goods over the Years

$$\% \text{ Profit} = \frac{\text{Profit Earned}}{\text{Total Investment}} \times 100$$

$$\text{Profit Earned} = \text{Total Income} - \text{Total Investment in the Year}$$



Directions (Qs. 34 to 40) : Study the following table carefully and answer the questions which follow.

Number of Candidates found Eligible and the Number of Candidates Short-listed for Interviews for a recent Recruitment Process for Six Posts from Different States

Post State	I		II		III		IV		V		VI	
	E	S	E	S	E	S	E	S	E	S	E	S
A	2500	65	7200	240	5200	76	3600	200	4600	110	5400	380
B	3200	220	8500	420	8400	190	6200	320	5800	180	6200	430
C	2800	280	4500	350	7600	160	8200	440	7300	310	3700	250
D	2400	85	4800	200	2600	55	7500	350	3900	160	4800	360
E	3000	120	5600	280	3800	75	6800	280	6100	260	7800	520
F	4800	325	6400	320	4400	220	4700	180	4900	220	8800	640
G	6500	550	7000	140	6000	325	5500	220	8100	410	2700	200

E-Eligible S-Short-listed

34. From State 'B', which post had the highest percentage of candidates short-listed ?

- (1) V (2) IV (3) VI
(4) II (5) None of these

35. Approximately, what is the average number of candidates found eligible from all States for Post III ?

- (1) 6700 (2) 6200 (3) 4200
(4) 4500 (5) 5500

36. What is the overall percentage (rounded off to one digit after decimal) of candidates short-listed over the total number of candidates eligible from all the States together for Post I ?

- (1) 9.5% (2) 12.5% (3) 7.2%
(4) 6.5% (5) None of these

37. What is the ratio between total number of candidates short-listed for all the posts together from States E and G respectively ?

- (1) 307 : 369 (2) 73 : 79
(3) 6 : 5 (4) 9 : 7
(5) None of these

38. Total number of candidates found eligible from all States together for Post is approximately what percent of the total number of candidates found eligible from all States together for Post VI ?

- (1) 45 (2) 50 (3) 60
(4) 55 (5) 65

39. Which State had the lowest percentage of candidates short-listed over eligible for Post IV ?

- (1) G (2) F (3) E
(4) C (5) None of these

40. What is the ratio between total number of candidates short-listed from all States together for posts V and VI respectively ?

- (1) 6 : 7 (2) 55 : 96
(3) 165 : 278 (4) 16 : 25
(5) None of these

Directions (Qs. 41 to 45) : These questions are based on the following data. Study it carefully and answer the questions that follow.

In a school having 400 students boys and girls are in the ratio of 3 : 5

respectively. The students speak Hindi, English or both the languages. 12% of the boys speak only Hindi, 22% of the girls speak only English. 24% of the total students speak only Hindi and the number of boys speaking both the languages is six times the number of boys speaking only Hindi.

41. Total how many boys speak Hindi ?

- (1) 18 (2) 126 (3) 108
(4) 26 (5) None of these

42. How many girls speak only Hindi ?

- (1) 55 (2) 117 (3) 96
(4) 78 (5) None of these

43. Total how many students speak English ?

- (1) 304 (2) 79 (3) 225
(4) 117 (5) None of these

44. Number of girls speaking only Hindi is what percent of the total number of students speaking only Hindi ?

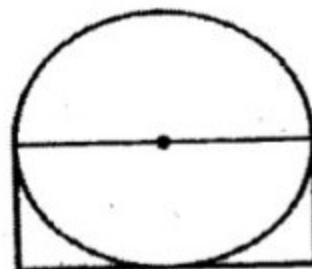
- (1) 38.2 (2) 71.8
(3) 31.2 (4) 78
(5) None of these

45. What is the respective ratio between the number of boys and girls speaking both the languages ?

- (1) 23 : 25
(2) 12 : 25
(3) 12 : 13
(4) 25 : 13
(5) None of these

Directions (Qs. 46 to 50) : Study the information given in each of these questions and then answer the questions.

46. Area of the circle is 616 cm^2 . What is the area of the rectangle ? ('dot' indicates centre of the circle)



- (1) 784 cm^2 (2) 196 cm^2
(3) 392 cm^2
(4) Cannot be determined
(5) None of these

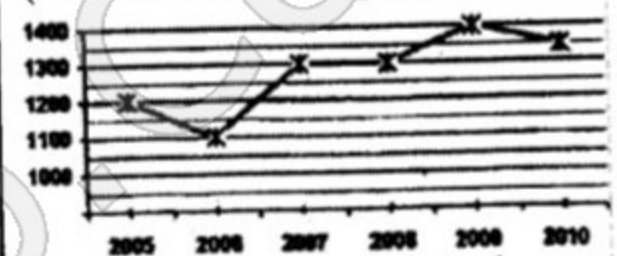
47. **Population in Millions**

City	Total Population	Male Population
A	12	6.5
B	15	7.2
C	17	9.0
D	19	9.9
E	22	10.8

What is the average female population in million ?

- (1) 8.32 (2) 8.86 (3) 8.68
(4) 9.12 (5) None of these

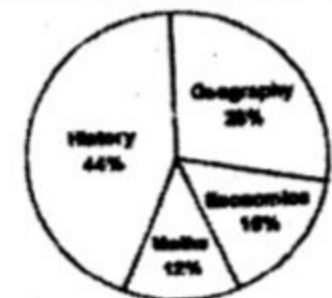
48. What is the percent rise in production in 2007 from 2006 ? (Rounded off to two digits after decimal)



- (1) 28.18 (2) 18.18
(3) 16.28 (4) 26.18
(5) None of these

49. Out of the total 550 students, how many students did not prefer Maths or Economics ?

Break-up of students having preference for each subject



- (1) 462 (2) 154 (3) 196
(4) 396 (5) None of these

50.

Person	Salary in Rs. Lakhs
A	8.5
B	7.6
C	12.8
D	5.4
E	10.5

What is the difference (in Rs. lakhs) between the average salary and the lowest salary ?

- (1) 4.2 (2) 2.65
(3) 3.65 (4) 4.06
(5) None of these