

EPFO SOCIAL SECURITY ASSISTANT EXAM 2009

Exam Held On: 06-09-2009

REASONING

1. D walked 30 metre towards West, took a left turn and walked 20 metre and he took a left turn and walked 30 metre. How far is he from the starting point ?
 (A) 80 metre
 (B) 50 metre
 (C) 20 metre
 (D) Data inadequate
 (E) None of these
2. Pointing to a girl, Mohan said "She is the daughter of my grand father's only child." How is Mohan related to that girl ?
 (A) Brother
 (B) Father
 (C) Uncle
 (D) Data inadequate
 (E) None of these
3. In a certain code language 'beautiful red flower' is written as 'si di ni' and 'many red roses' is written as 'pa ni ka'. How is 'flower' written in that code language ?
 (A) si
 (B) di
 (C) si or di
 (D) Data inadequate
 (E) None of these
4. Four of the following five are alike in a certain way and so form a group. Which is the one that does not belong to that group ?
 (A) FC (B) VS
 (C) BE (D) JE
 (E) JM
5. Four of the following five are alike in certain way and so form a group. Which is the one that does not belong to that group ?
 (A) Silver (B) Gold
 (C) Platinum (D) Bronze
 (E) Diamond
- Directions—(Q. 6–8) Following questions are based on the five three-digit numbers given below :
6. Which of the following is the second digit of the third lowest number ?
 (A) 5 (B) 9
 (C) 4 (D) 8
 (E) 1
7. If the positions of the first and the second digits within each number are interchanged, which of the following will be the third digit of the highest number ?
 (A) 3 (B) 1
 (C) 7 (D) 5
 (E) 8
8. If the positions of the first and the third digits within each number are interchanged, which of the following will be the sum of the first and the second digit of the second highest number ?
 (A) 11 (B) 13
 (C) 9 (D) 10
 (E) 8
- Directions—(Q. 9–13) Study the following arrangement carefully and answer the questions given below :
- # D 1 5 E % K 3 J I 9 P 8 # A 2 B \$ K M 6 W @ N 4 © T ★ 7 F H
9. Which of the following is the third to the right of the twelfth from the left end ?
 (A) J (B) A
 (C) B (D) @
 (E) None of these
10. Which of the following is the sixth to the right of the eighteenth from the right end ?
 (A) P (B) 3
 (C) W (D) M
 (E) None of these
11. How many such numbers are there in the above arrangement, each of which is immediately preceded by a consonant and immediately followed by a symbol ?
 (A) One (B) Two
 (C) Three (D) Four
 (E) None of these
12. How many such consonants are there in the above arrangement, each of which is immediately preceded by a symbol and immediately followed by a number ?
 (A) One (B) Two
 (C) Three (D) Four
 (E) None of these
13. Which of the following is exactly in the middle between the tenth from the left end and the eighth from the right end ?
 (A) \$ (B) #
 (C) B (D) 7
 (E) None of these
14. How many pairs of letters are there in the word 'PRISON' each of which has as many letters between its two letters in the word as there are between them in the English alphabet ?
 (A) Two (B) One
 (C) Four (D) Three
 (E) More than four
15. How many 5s are there in the following number series, each of which is immediately followed by 4 but not immediately preceded by 6 ?
 4 5 6 6 5 6 4 5 5 4 5 5 6 5 4 4 5 6
 4 5 6 5 4 5 4
 (A) One (B) Three
 (C) Four (D) Two
 (E) None of these
16. If Ramesh's mother's brother is Alok's father's brother then Ramesh's mother is Alok's—
 (A) Grandmother
 (B) Aunt
 (C) Cousin
 (D) Sister-in-law
 (E) None of these
17. In a certain code language 'Ne Pe Le' means 'what is this' 'Bo Le Se' means 'is that okay' and 'Se Ni Di' means 'that was easy'.

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- What is the code for 'okay' in that code language ?
 (A) Le (B) Se
 (C) Ne (D) Ni
 (E) None of these
18. Which of the following letters is as far away from M to the right as D is away from N ?
 A B C D E F G H I J K L M N O P
 Q R S T U V W X Y Z
 (A) X (B) V
 (C) C (D) Y
 (E) None of these
19. Among P, Q, R, S and T; T is shorter than S and P. Q is shorter than only P. Who among them is the shortest ?
 (A) Cannot be determined
 (B) R
 (C) T
 (D) Q
 (E) None of these
20. In a certain code 'GIVE' is written as 'VIEG' and 'OVER' is written as 'EVRO'. How will 'DISK' be written in that code ?
 (A) SIDK (B) KISD
 (C) KDSI (D) SIKD
 (E) None of these
21. In a certain code 'PRISM' is written as 'OSHTL' and 'RUBLE' is written as 'QVAMD'. How will 'WHORL' be written in that code ?
 (A) XIPSM (B) VGNQK
 (C) UINSK (D) XGPQM
 (E) VINSK
- Directions—(Q. 22–27) Study the following series of letters, symbols and numbers carefully and answer the questions given below—
 $P \beta 7 E N ? 2 L \star \text{EKW} 8 \$ = 5$
 $J D \div V 6 F G @ 3 \text{CR}$
22. How many such numbers are there in the above series each of which is immediately followed by a symbol and also immediately preceded by letter ?
 (A) Nil (B) Two
 (C) Three (D) One
 (E) None of these
23. If all the symbols are eliminated from the above series then which of the following will be the 5th to the right of 10th element from the right end ?
 (A) V (B) F
 (C) D (D) 6
 (E) None of these
24. How many such symbols are there in the above series each of which is immediately preceded by a number ?
 (A) Three (B) Nil
 (C) Two (D) One
 (E) None of these
25. Four of the following five are alike in a certain way based on the positions of their elements in the above series and hence form a group. Which one **does not** belong to the group ?
 (A) $N \beta E$ (B) $K L \text{E}$
 (C) $V 5 \div$ (D) $\text{CR} 3$
 (E) $= W \$$
26. How many such symbols are there in the above series each of which is immediately followed by a letter but **not** immediately preceded by a number ?
 (A) One (B) Nil
 (C) Three (D) Two
 (E) None of these
27. How many such letters are there in the above series, each of which is **not** immediately preceded by a symbol ?
 (A) Ten (B) Nine
 (C) Six (D) Seven
 (E) None of these
- Directions—(Q. 28–32) In each question below is given a group of digits followed by four combinations of letters (A), (B), (C) and (D). You have to find out which of the combinations correctly represents the group of digits. If none of the combinations correctly represents the group of digits give 'E' i.e. 'None of these' as the answer.
Digit : 9 2 1 7 5 3 6 4 8
Letter : B V M L D P A F R
- Conditions to be applied :**
 (i) If the first digit as well as the last digit is even, both are to be coded as the code for the first digit.
 (ii) If the first digit as well as the last digit is odd, both are to be coded as the code for the last digit.
28. 397416
 (A) PBLFMP (B) ABLFMA
 (C) PVLFMA (D) PBLFMA
 (E) None of these
29. 562183
 (A) PAVMRP (B) DAVMRD
 (C) PAVMRD (D) DAVMRP
 (E) None of these
30. 734192
 (A) DPFMBV (B) LPAMBV
 (C) LPFMVB (D) LPFMBV
 (E) None of these
31. 812354
 (A) RLVPDF (B) FMVPDF
 (C) RMVPDR (D) RMVADF
 (E) None of these
32. 627851
 (A) PULRDM (B) AVL RDM
 (C) AVLFDM (D) ABLRDM
 (E) None of these
33. 'Smell' is related to 'Flower' in the same way; the 'Taste' is related to
 (A) Tongue (B) Water
 (C) Sweet (D) Food
 (E) Good
34. Out of following five, four are similar in a certain way and make a group. Which one does not belong to that group ?
 (A) 36 (B) 64
 (C) 49 (D) 81
 (E) 16
35. Out of the following five, four are similar in a certain way and make a group. Which one does not belong to that group ?
 (A) OP (B) IJ
 (C) TU (D) AB
 (E) EF
36. In English alphabet as 'BDG' : 'CFJ' in the same way 'EGJ' : ?
 (A) FIL (B) FJM
 (C) FIM (D) FIN
 (E) None of these
37. How many digits of the number 7214658, will remain in the same place when these digits are arranged in ascending order ?
 (A) Three (B) Four
 (C) One (D) Two
 (E) None of these
- Directions—(Q. 38–40) To answer these questions, read this information carefully.
 (i) A, B, C, D and E are sitting in a circle facing the centre.
 (ii) C is the neighbour of A and B.
 (iii) E is just next to the left of B.

38. Which of the following statements is false ?

- (A) E is just right to D
- (B) D is second to the right of C
- (C) A is 3rd to the right of E
- (D) A is between C and D
- (E) None of these

- (C) Just left to A
- (D) Second to the left of C
- (E) None of these

40. Which of the following statement is correct ?

- (A) A is second to the left of B
- (B) B is second to the left of D
- (C) D is between A and B
- (D) C is third to the left of E
- (E) None of these

39. What is the place of D ?

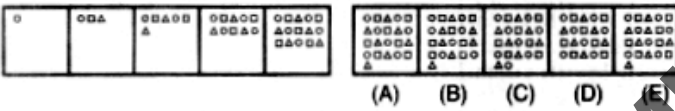
- (A) Just right to E
- (B) Third to the right of B

Directions—(Q. 41–50) 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 ?

Problem Figures

Answer Figures

41. 

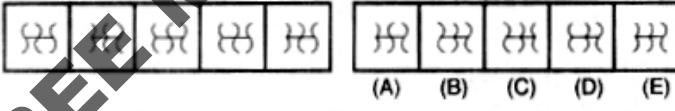
42. 

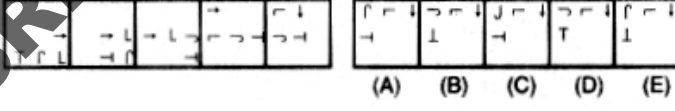
43. 

44. 

45. 

46. 

47. 

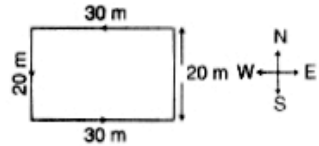
48. 

49. 

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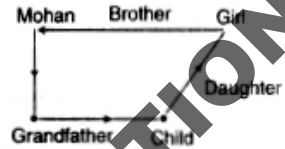
Answers with Hints

1. (C)



∴ Reqd. distance = 20 m

2. (A)



∴ Mohan is the brother of the girl.

3. (C)

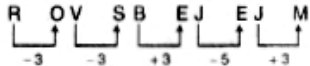
beautiful red flower → si di ni... (1)

many red roses → pa ni ka ... (2)

∴ red → ni

and flower → si or di

4. (D)



5. (E) All the rest are metals.

6. (C) The third lowest number is 647 whose second digit is 4.

7. (B) After changes :

583, 941, 467, 825, 178

The highest number is 941 whose 3rd digit is '1'.

8. (A) After changes :

358, 194, 746, 582, 817

∴ The second highest number is 746.

The sum of first and second digits = 7 + 4 = 11

9. (B) Twelfth from left is P and third to the right of P is A.

10. (D) Eighteenth from right is '#' and sixth to the right of '#' is M.

11. (B) The proper numbers are shown below as underlined :

R D 15 E % K 3 J I 9 P B # A 2 B \$ K M 6 W @ N 4 @ T * 7 F H

∴ The required numbers are two.

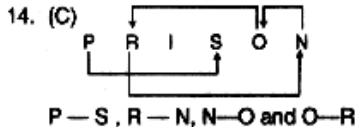
12. (B) The proper consonants are shown below by an underline :

R D 15 E % K 3 J I 9 P # A 2 B \$ K M 6 W @ N 4 @ T * 7 F H

Therefore, there are two such required consonants.

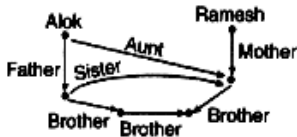
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13. (C) Tenth from left is I and eighth from right end is N and B is in the middle of these two exactly.



15. (D) 5 5 4 and 4 5 4

16. (B)



Ramesh's mother is Alok's aunt.

17. (E)

Ne Pe Le ⇒ what is this ... (1)

Bo Le Se ⇒ is that okay ... (2)

Se Ni Di ⇒ that was easy ... (3)

From (1) and (2):

Le ⇒ is

and from (2) and (3)

Se ⇒ that

∴ Bo ⇒ okay

18. (E) No. of digits between D and N = 9

and No. of digits between N and W = 9

Reqd. letter is W.

19. (A)

20. (D) As,

G I V E → V I E G
1 2 3 4 → 3 2 4 1

and O V E R → E V R O
1 2 3 4 → 3 2 4 1

Similarly,

D I S K → S I K D
1 2 3 4 → 3 2 4 1

21. (E)

As, P $\xrightarrow{-1}$ O and R $\xrightarrow{-1}$ Q

R $\xrightarrow{+1}$ S U $\xrightarrow{+1}$ V

I $\xrightarrow{+1}$ H B $\xrightarrow{-1}$ A

S $\xrightarrow{+1}$ T L $\xrightarrow{+1}$ M

M $\xrightarrow{-1}$ L E $\xrightarrow{-1}$ D

Similarly, W $\xrightarrow{-1}$ V

H $\xrightarrow{+1}$ I

O $\xrightarrow{-1}$ N

R $\xrightarrow{+1}$ S

L $\xrightarrow{-1}$ K

22. (D) W B \$

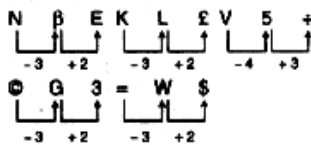
23. (D) After eliminating all the symbols:

P7EN2LKW85JDV6FG3R

10th from the right end is '8' and 5th to the right of 'B' is '6'.

24. (C) 8 \$ and 3 @

25. (C)



26. (D) ★ £ K and D + V

27. (B) P, 7E, EN, 2L, KW, 5J, JD, 6F, FG

28. (E) P B L F M A

29. (A) 30. (D) 31. (C) 32. (B)

33. (D) As 'Smell' is obtained from 'Flower' similarly 'Taste' is obtained from 'Food'.

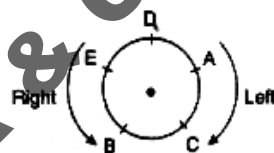
34. (C) For only 49, there are two factors 7 × 7 while for the rest, there are more than two.

35. (C) In all the rest the vowel is first while in 'TU' the vowel is after.

36. (C) As,



For Q. 38 to 40



38. (E) 39. (B) 40. (D)

41. (E) In each subsequent figure the outside design '^' is rotating 45° and 90° anticlockwise respectively and the inside design 'L' is rotating 90° and 45° anticlockwise respectively.

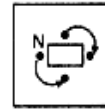
42. (A) In each subsequent figure the one, two, three, four, five and six designs form new in this sequence 'bna' respectively from upper to downward side.

43. (C) In each subsequent figure the design distributes into two equal parts after rotating 90° clockwise first and then the design will distribute into two equal parts after rotating 90° anticlockwise.

44. (C) In second figure from the first the both designs change their places mutually and the third design slides one part clockwise

after forming new. In third figure from the second the all three designs slide one part anticlockwise and form new. Hence above both changing sequences continue further also.

45. (B) In each subsequent figure the designs slide as follows and a new design form at the place of 'N'



(1) to (2)
(3) to (4)
(5) to (6)



(2) to (3)
(4) to (5)

46. (D) In second figure from first the design of left forms after reversing and the design of right forms similarly at middle and the design of middle forms at right after reversing. In third figure from second the design of right forms after reversing and the design of left forms at middle after reversing and the design of middle forms at left after reversing. Hence above both changing sequences continue also further similarly respectively.

47. (A) In each subsequent figure the curved lines form after reversing 4, 3, 4, 2 and 4 respectively in clockwise direction from upper left.

48. (B) In each subsequent figure the all four designs slide as like it and form after rotating 90° clockwise one by one from backward side.

49. (A) In each subsequent figure the straight lines and curved lines on the rectangle form sequentially as follows—



50. (B) In each subsequent figure the four designs inside of four distributed parts by vertical and horizontal lines inside of different main designs slide anticlockwise one part first time and then become stable on the same place next time. Hence the same sequences continue further also respectively.

NUMERICAL ABILITY

Directions—(Q. 1–25) What will come in place of the question mark (?) in the following questions ?

1. $3428 + 2843 + ? = 7109$
(A) 828 (B) 838
(C) 738 (D) 728
(E) None of these
2. $48 \times 12 \div 8 = ?$
(A) 36 (B) 32
(C) 96 (D) 72
(E) None of these
3. $9875.25 - 1587.22 + 432.17 = ?$
(A) 8720.20 (B) 8720.37
(C) 8722.17 (D) 8720.73
(E) None of these
4. $288 \div 16 \div 6 = ?$
(A) 4 (B) 6
(C) 108 (D) 18
(E) None of these
5. $229 \times 15 \times 4 = ?$
(A) 13760 (B) 14730
(C) 13740 (D) 13640
(E) None of these
6. $2\frac{2}{3} \times 1\frac{1}{2} + 7\frac{5}{9} = ?$
(A) $11\frac{1}{3}$ (B) $11\frac{2}{3}$
(C) $10\frac{4}{9}$ (D) $11\frac{5}{9}$
(E) None of these
7. $48\% \text{ of } 750 + 350 = ?$
(A) 720 (B) 710
(C) 718 (D) 722
(E) None of these
8. $184 \times 4.05 = ?$
(A) 72.52 (B) 72.052
(C) 74.52 (D) 74.052
(E) None of these
9. $\frac{6 \times 4 + 5^2}{5 \times 3 - 2 \times 4} = ?$
(A) 7 (B) 4
(C) 6 (D) 9
(E) None of these
10. $\frac{2}{3}$ of $\frac{4}{7}$ of $\frac{7}{8}$ of 159 = ?
(A) 56 (B) 69
(C) 63 (D) 54
(E) None of these
11. $7^{18} \times 7^{12} \div 7^{25} = 7^?$
(A) 9 (B) 7
(C) 6 (D) 5
(E) None of these
12. $136 \times 19 \times 1.5 = ?$
(A) 3876 (B) 3876.5
(C) 3786 (D) 3786.5
(E) None of these
13. 85% of ? = 1054
(A) 1250 (B) 1244
(C) 1254 (D) 1246
(E) None of these
14. $1610 \div 35 \times 12 = ?$
(A) 556 (B) 562
(C) 652 (D) 656
(E) None of these
15. 45% of 660 + 75% of 480 = ?
(A) 567 (B) 667
(C) 657 (D) 557
(E) None of these
16. $85^2 - 55^2 = ?$
(A) 4200 (B) 4225
(C) 4025 (D) 4250
(E) None of these
17. $1875 - 648 - 582 = ?$
(A) 644 (B) 654
(C) 655 (D) 645
(E) None of these
18. $125.45 \times 16 + 45.25 \times 8 = ?$
(A) 2369.40 (B) 2269.20
(C) 2369.20 (D) 2269.40
(E) None of these
19. $32\frac{4}{5} + 6\frac{2}{3} \times \frac{3}{10} = ?$
(A) 34 (B) $34\frac{4}{5}$
(C) $35\frac{2}{5}$ (D) 35
(E) None of these
20. $156 \times 18 \times 4 = ?$
(A) 11332 (B) 11322
(C) 10232 (D) 10322
(E) None of these
21. $\sqrt{484} + \sqrt{784} = \sqrt{?}$
(A) 2250 (B) 2500
(C) 2304 (D) 2344
(E) None of these
22. $\frac{4}{5}$ of 840 - $\frac{3}{4}$ of 640 = ?
(A) 172 (B) 196
(C) 186 (D) 192
(E) None of these
23. $497 \div 7 \times 6 = ?$
(A) 436 (B) 476
(C) 468 (D) 448
(E) None of these
24. $58 \times 22 + 642 = ?$
(A) 1918 (B) 1828
(C) 1928 (D) 1818
(E) None of these
25. $0.76 \times 320 + 68 \times 3.5 = ?$
(A) 482.1 (B) 481.02
(C) 481.2 (D) 482.01
(E) None of these
26. A train running at the speed of 66 kmph, crosses a 200 metre long platform in 24 second. What is the length of the train ?
(A) 260 metre (B) 240 metre
(C) 220 metre (D) 250 metre
(E) None of these
27. 40% of a number is equal to four-seventh of another number. What is the ratio between the first number and the second number respectively ?
(A) 7 : 10 (B) 5 : 7
(C) 7 : 5 (D) 10 : 7
(E) None of these
28. Total cost of 2 PCs and 3 TV sets is Rs. 90,000. What is the total cost of 6 PCs and 9 TV sets ?
(A) Rs. 2,40,000
(B) Rs. 3,30,000

- (C) Rs. 2,75,000
(D) Cannot be determined
(E) None of these
29. A and B together can paint a house in 8 days. A alone can paint it in 20 days. In how many days can B alone paint the house ?
(A) $13\frac{1}{3}$ days (B) 12 days
(C) 13 days (D) $12\frac{2}{3}$ days
(E) None of these
30. Find the average of the following set of scores :
117, 106, 128, 102, 112, 122, 110, 104, 116
(A) 112.75 (B) 113.75
(C) 113 (D) 112
(E) None of these
31. $637 \div ? \times 3.5 = 9.1$
(A) 245 (B) 325
(C) 275 (D) 385
(E) None of these
32. $441 \div 3 \times \sqrt{?} = 10290$
(A) 70 (B) 80
(C) 4900 (D) 6400
(E) None of these
33. $7416 - ? - 2897 = 1209$
(A) 3350 (B) 3130
(C) 3030 (D) 3301
(E) None of these
34. $(45 \times 4.5 \times 3.2) + ? = 991$
(A) 343 (B) 323
(C) 334 (D) 312
(E) None of these
35. $580 \times ? + 155 = 300$
(A) 4 (B) 0.25
(C) 1.25 (D) 2
(E) None of these
36. $828.88 + 369.14 - 741.52 = ?$
(A) 436.4 (B) 456.5
(C) 463.4 (D) 465.5
(E) None of these
37. $(?)^2 \times 25 = (385)^2$
(A) 55 (B) 5929
(C) 66 (D) 4356
(E) None of these
38. $(74395 - 72699) \times \frac{5}{16} = ?$
(A) 106 (B) 420
(C) 530 (D) 240
(E) None of these
39. $[(11)^3 \times (15)^2] \div (25)^2 = ?$
(A) 497.61 (B) 429.18
(C) 425 (D) 479.16
(E) None of these
40. $3965 \times \frac{2}{5} \div 52 = ?$
(A) 30 (B) 35
(C) 28.5 (D) 30.5
(E) None of these
41. A bag contains eight 25 paise coins, twelve 50 paise coins, fifteen 1 rupee coins, six 2 rupee coins and five 5 rupee coins. What is the total amount in the bag ?
(A) Rs. 200 (B) Rs. 100
(C) Rs. 80 (D) Rs. 60
(E) None of these
42. 15% of the total number of students in a college play football. How many students do not play football, if the total number of students in the college is 6500 ?
(A) 975 (B) 5525
(C) 910 (D) 5590
(E) None of these
43. 150 metre of cloth is required to make a shirt piece. If 60 such shirt pieces are cut from a reel of cloth and 50 metre of cloth remains, what is the length of the reel of cloth ?
(A) 9000 metre
(B) 8050 metre
(C) 9050 metre
(D) Cannot be determined
(E) None of these
44. What should come in place of the question mark (?) in the following number series ?
15 50 155 470 1415 ?
(A) 4250 (B) 7078
(C) 4245 (D) 7015
(E) None of these
45. Find the average of the following set of numbers :
637, 885, 692, 348, 213, 109, 505, 751
(A) 518 (B) 521.5
(C) 515.5 (D) 517
(E) None of these
46. 25% of 50% of a number is 385. What is the number ?
(A) 3050 (B) 3100
(C) 3004 (D) 3080
(E) None of these
47. The area of a square plot is twice the area of a rectangular plot. If the length of the rectangular plot is 36 metre and the area of the square plot is 1764 sq metre. What is the breadth of the rectangular plot ?
(A) 24.5 metre
(B) 20 metre
(C) 15.5 metre
(D) Cannot be determined
(E) None of these
48. Samir secured 580 marks out of a total of 750 in an examination. What is Samir's approximate percentage in the exam ?
(A) 81 (B) 77
(C) 71 (D) 75
(E) 84
49. What is the least number to be added to 1416 to make it a perfect square ?
(A) 47 (B) 38
(C) 28 (D) 25
(E) None of these
50. The respective ratio of the present ages of Seeta and Geeta is 8 : 9. The sum of their ages is 68. What will be the respective ratio of their ages 10 years hence ?
(A) 23 : 24 (B) 15 : 16
(C) 7 : 8 (D) 21 : 23
(E) None of these

Answers with Hints

1. (B) $? = 7109 - 3428 - 2843 = 838$
2. (D) $? = \frac{48 \times 12}{8} = 72$
3. (A) $? = 9875.25 - 1587.22 + 432.17 = 8720.20$
4. (E) $? = \frac{288}{16 \times 6} = 3$
5. (C) $? = 229 \times 15 \times 4 = 13740$
6. (D) $? = \frac{8}{3} \times \frac{3}{2} + \frac{68}{9} = 4 + 7\frac{5}{9} = 11\frac{5}{9}$
7. (B) $? = \frac{48}{100}$ of $750 + 350 = 360 + 350 = 710$

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8. (C) $? = 18 \times 4 \times 0.5$
 $= 74.52$
9. (A) $? = \frac{6 \times 4 + (5)^2}{5 \times 3 - 2 \times 4}$
 $= \frac{24 + 25}{15 - 8}$
 $= \frac{49}{7} = 7$
10. (E) $? = \frac{2}{3} \text{ of } \frac{4}{7} \text{ of } \frac{7}{8} \text{ of } 159$
 $= 53$
11. (D) $\therefore (7)^? = 7^{18} \times 7^{12} \div 7^{25}$
 $\therefore ? = 18 + 12 - 25$
 $= 5$
12. (A) $? = 136 \times 19 \times 1.5$
 $= 3876$
13. (E) $\therefore \frac{85}{100} \text{ of } ? = 1054$
 $\therefore ? = \frac{1054 \times 100}{85}$
 $= 1240$
14. (B) $? = 1610 \div 35 \times 12$
 $= 46 \times 12 = 552$
15. (C)
 $? = \frac{45}{100} \text{ of } 660 + \frac{75}{100} \text{ of } 480$
 $= 297 + 360$
 $= 657$
16. (A) $? = (85)^2 - (55)^2$
 $= (85 + 55)(85 - 55)$
 $= 140 \times 30$
 $= 4200$
17. (D) $? = 1875 - 648 - 582$
 $= 645$
18. (C) $? = 125.45 \times 16 + 45.25 \times 8$
 $= 2007.2 + 362$
 $= 2369.2$
19. (B) $? = 32 \frac{4}{5} + \frac{20}{3} \times \frac{3}{10}$
 $= 32 + \frac{4}{5} + 1$
 $= 34 \frac{4}{5}$
20. (E) $? = 156 \times 18 \times 4$
 $= 11232$
21. (B) $\therefore \sqrt{?} = \sqrt{484} + \sqrt{784}$
 $= 22 + 28$
 $= 50$
 $\therefore ? = 2500$
22. (D) $? = \frac{4}{5} \text{ of } 840 - \frac{3}{4} \text{ of } 640$
 $= 672 - 480$
 $= 192$

23. (E) $? = \frac{497}{7} \times 6 = 426$
24. (A) $? = 58 \times 22 + 642$
 $= 1276 + 642$
 $= 1918$
25. (C) $? = 0.76 \times 320 + 68 \times 3.5$
 $= 243.2 + 238$
 $= 481.2$
26. (B) Let the length of the train be x metre
 $\therefore 66 \times \frac{5}{18} = \frac{200 + x}{24}$
 $\Rightarrow 66 \times \frac{5}{18} \times 24 = 200 + x$
 $\Rightarrow 440 - 200 = x$
 $\therefore x = 240 \text{ m}$
27. (D) $\therefore x \times \frac{40}{100} = y \times \frac{4}{7}$
 $\Rightarrow \frac{x}{y} = \frac{4}{7} \times \frac{100}{40}$
 $\therefore x : y = 10 : 7$
28. (E) Reqd. cost = 90000×3
 $= \text{Rs. } 270000$
29. (A) Reqd. time = $\frac{xy}{x+y}$
 $= \frac{20 \times 8}{20+8}$
 $= 13 \frac{1}{3} \text{ days}$
30. (C) Reqd. average
 $= \frac{(117 + 106 + 128 + 102 + 112 + 122 + 110 + 104 + 116)}{9}$
 $= \frac{1017}{9}$
 $= 113$
31. (A) $\therefore \frac{637}{?} \times 3.5 = 9.1$
 $\therefore ? = \frac{637 \times 3.5}{9.1}$
 $= 245$
32. (C) $\therefore 441 + 3 \times \sqrt{?} = 10290$
 $\Rightarrow \frac{441}{3} + \sqrt{?} = \frac{10290}{3}$
 $\Rightarrow \sqrt{?} = \frac{10290 \times 3}{441}$
 $= 70$
 $\therefore ? = 4900$
33. (E) $? = 7416 - 2897 - 1209$
 $= 3310$
34. (A) $? = 991 - (45 \times 4.5 \times 3.2)$
 $= 991 - 648$
 $= 343$

35. (B) $\therefore 580 \times ? = 300 - 155$
 $\therefore ? = \frac{145}{580} = \frac{1}{4} = 0.25$
36. (B)
 $? = 828.88 + 369.14 - 741.52$
 $= 456.5$
37. (E) $\therefore (7)^? \times 25 = (385)^2$
 $\Rightarrow (7)^? = \frac{385 \times 385}{25}$
 $= (77 \times 77)$
 $\therefore ? = 77$
38. (C) $? = (74395 - 72699) \times \frac{5}{16}$
 $= 1696 \times \frac{5}{16} = 106 \times 2$
 $= 530$
39. (D) $? = [(11)^3 \times (15)^2] + (25)^2$
 $= 1331 \times 225$
 $= 625$
 $= 47976$
40. (D) $? = 3865 \times \frac{2}{5} + 52$
 $= 1546 + 52$
 $= 1600$
41. (D) Total amount
 $= 0.25 \times 8 + 0.50 \times 12 + 1$
 $\times 15 + 2 \times 6 + 5 \times 5$
 $= 2 + 6 + 15 + 12 + 25$
 $= \text{Rs. } 60$
42. (B) No. of students who do not play football
 $= 6500 \times \frac{85}{100}$
 $= 5525$
43. (C) Length of the reel of cloth
 $= 80 \times 150 + 50$
 $= 9000 + 50$
 $= 9050 \text{ m}$
44. (A)

15	50	155	470	1415	?	4250
$\therefore 15 + 50 + 155 + 470 + 1415 + ? = 4250$						

 $\therefore ? = 1415 \times 3 + 5$
 $= 4245 + 5 = 4250$
45. (E) Reqd. average
 $= \frac{(637 + 885 + 692 + 348 + 213 + 109 + 505 + 751)}{8}$
 $= \frac{4140}{8}$
 $= 517.5$
46. (D) Let the number be x
 $\therefore \frac{25}{100} \text{ of } \frac{50}{100} \text{ of } x = 385$
 $\therefore x = \frac{385 \times 100 \times 100}{25 \times 50}$
 $= 3080$
47. (A) Breadth of the rectangular plot
 $= \frac{1764}{2 \times 36} = 24.5 \text{ m}$
48. (B) Reqd. % = $\frac{580 \times 100}{750} \%$
 $= 77.33\%$
 $= 77\% \text{ (App.)}$
49. (C)

3	1416
68	516
	544

 $\therefore 544 - 516 = 28$
 $\therefore \text{Reqd. least number} = 28$
50. (D) The present age of Seeta
 $= 8 \times 68$
 $= (8 + 9)$
 $= 32 \text{ years}$
 and the present age of Geeta
 $= \frac{9 \times 68}{8}$
 $= (8 + 9)$
 $= 36 \text{ years}$
 $\therefore \text{Reqd. ratio} = \frac{(32 + 10)}{(36 + 10)}$
 $= \frac{42}{46} = 21 : 23$

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OFFICE WORK APTITUDE

Directions—(Q. 1 to 30) In each question below a combination of Name and Address is given in the first column at the left following by four such combinations one each under the columns (A), (B), (C) and (D). You have to find out the combination which is exactly the same as the combination in the first column. The letter of that column which contains that combination is the answer. If all the combinations are different, the answer is 'E'.

	(A)	(B)	(C)	(D)	(E)
1. Manjula Naik Illrd Floor Urmila Bldg. Nagpur 59	Manjula Naik Illrd Floor Urmila Bldg. Nagpur 59	Manjula Naik Illrd Floor Urmila Bldg. Nagpur 69	Manjula Nayak Illrd Floor Urmila Bldg. Nagpur 59	Manjula Naik IInd Floor Urmila Bldg. Nagpur 59	None
2. Linesh Chandra Gujar Niwas 27, Wing B Hyderabad	Linesh Chandra Gujar Niwas 27, Wing B Hyderabad	Linesh Chandra Gujar Niwas 29, Wing B Hyderabad	Linesh Chandra Gujar Niwas 27, Wing B Hydrabad	Linesh Chandra Gujar Niwas 27, Wing B Hyderabad	None
3. Vishakha Das Ameya, 45 Rajgurunagar Pune 101	Visakha Das Ameya, 45 Rajgurunagar Pune 101	Vishakha Das Ameya, 45 Rajgurunagar Pune 101	Vishakha Das Amaya, 45 Rajgurunagar Pune 101	Vishakha Das Ameya, 45 Rajgurnagar Pune 101	None
4. Rajendra Bhat I/II, Prayas Agra Road 500709	Rajendra Bhat I/II, Prayas Agra Road 500907	Rajendra Bhat II/I, Prayas Agra Road 500709	Rajendra Bhat I/II, Prayas Agra Road 500709	Rajendra Bhatt I/II, Prayas Agra Road 500709	None
5. Prabhat Sharma 111, Rajatnagar Hill Road Borivali (E)	Prabhat Sharma 111, Rajatnagar Hill Road Borivali (W)	Prabhat Sharma 111, Rajatnagar Hill Marg Borivali (E)	Prabhat Shama 111, Rajatnagar Hill Road Borivali (E)	Prabhat Sharma 121, Rajatnagar Hill Road Borivali (E)	None
6. Shirish Kumar 312, Trupti College Road Pilibhit 29	Shirish Kumar 312, Trupti College Road Pilibhit 92	Shirish Kumar 312, Trupti Collage Road Pilibhit 29	Shirish Kumar 213, Trupti College Road Pilibhit 29	Shirish Kumar 312, Trupti College Road Pilibhit 29	None
7. Manish Mahto 56, Jalana Near Cinemax Tel. 42563298	Manish Mahto 56, Jalana Near Cinemax Ph. 42563298	Manish Mahto 65, Jalana Near Cinemax Tel. 42563298	Manish Mahto 56, Jalana Near Cinemax Tel. 42563298	Manish Matho 56, Jalana Near Cinemax Tel. 42563298	None
8. Alok Raj Giri Apartment S. V. Marg New Delhi	Alok Raj Giri Apartment S. V. Marg New Delhi	Alok Raj Giri Apartment S. V. Marg New Dehli	Aalok Raj Giri Apartment S. V. Marg New Delhi	Alok Raj Giri Apartment S. U. Marg New Delhi	None
9. Aparna L N 51, Sun Villa Fifth Floor Pin. 728643	Aparna L N 51, Sun Villa Fifth Floor Tel. 728643	Aparna L N 51, Sun Villa Fifth Floor Pin. 728643	Aparna N L 51, Sun Villa Fifth Floor Pin. 728643	Aparna L N 51, Sun Vila Fifth Floor Pin. 728643	None
10. Girish Taneja Shanti Sadan 193, Madhuban B Wing / 38	Girish Taneja Shanti Sadan 193, Madhuban D Wing / 38	Girish Taneja Shanti Sadan 193, Madhuban B Wing / 38	Girish Taneja Shanti Bhavan 193, Madhuban B Wing / 38	Girish Taneja Shanti Sadan 139, Madhuban B Wing / 38	None

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11.	Arun Koshy Rose Garden 15th Floor Jabalpur 36	Arun Koshy Rose Garden 15th Floor Jabalpur 36	Arun Koshy Rose Garden 16th Floor Jabalpur 36	Arun Koshi Rose Garden 15th Floor Jabalpur 36	Arun Koshy Roze Garden 15th Floor Jabalpur 36	None
12.	Baljeet Kaur Plot 158 Sector 72 Chandigarh	Baljiith Kaur Plot 158 Sector 72 Chandigarh	Baljeet Kaur Plot 158 Sector 72 Chandigarh	Baljeet Kaur Flat 158 Sector 72 Chandigarh	Baljeet Kaur Plot 158 Sector 72 Chandigarh	None
13.	Nishit Vaidya 391, Pimpri Dahanu Road Ph. 28486979	Nishit Vaidya 391, Pimpri Dahanu Road Ph. 28486979	Nishit Vaidya 391, Pimpri Dahanu Road Tel. 28486979	Nishit Vaidya 319, Pimpri Dahanu Road Ph. 28486979	Nishad Vaidya 391, Pimpri Dahanu Road Ph. 28486979	None
14.	Basant Kumar III/IV, Naman Indira Nagar 398467	Basant Kumar III/IV, Naman Indira Nagar 379847	Basant Kumar III/IV, Naman Indira Nagar 398467	Basant Kumar III/IV, Naman Indira Nagar 398467	Basant Kumar IV/III, Naman Indira Nagar 398467	None
15.	Vijaya Singh Rajbhavan 36/133/VI R. S. Puram	Vijaya Singh Rajbhavan 36/133/IV R. S. Puram	Vijaya Singh Rajbhavan 36/133/VI R. S. Puram	Vijaya Sinh Rajbhavan 36/133/VI R. S. Puram	Vijaya Singh Rajbhavan 36/133/VI R. S. Puram	None
16.	Namita Mandal Sneh Sadan H. P. Road 430058	Namita Mandal Sneh Sadan H. P. Road 450038	Namita Mandal Sneh Sadan H. P. Road 430058	Namita Mandal Sneh Sadan H. P. Marg 430058	Namita Mondal Sneh Sadan H. P. Road 430058	None
17.	Rakshita Roy 15, Ishwar Opp. Theatre Jabalpur 85	Rakshita Roy 15, Ishwar Opp. Theatre Jabalpur 86	Rakshita Roy 15, Ishwar Opp. Theater Jabalpur 85	Rakshita Ray 15, Ishwar Opp. Theatre Jabalpur 85	Rakshita Roy 15, Eshwar Opp. Theatre Jabalpur 85	None
18.	Kaushik Gune Mehta Sadan Fifth Floor Third Road	Kaushik Gune Mehta Sadan Third Floor Fifth Road	Kaushik Gune Mehta Bhavan Fifth Floor Third Road	Kaushik Gone Mehta Sadan Fifth Floor Third Road	Kaushik Gune Mehta Sadan Fifth Floor Third Road	None
19.	Rajesh Churi Alka Niwas 263/IV Bangalore	Rajesh Chari Alka Niwas 263/IV Bangalore	Rajesh Churi Alka Niwas 263/IV Banglore	Rajesh Churi Alka Niwas 263/IV Bangalore	Rajesh Churi Alka Niwas 236/IV Bangalore	None
20.	Mukesh Arora Karn Villa 14th Floor Nene Marg	Mukesh Arora Karn Villa 14th Floor Nene Marg	Mukesh Arora Karn Villa 18th Floor Nene Marg	Mukesh Arora Karan Villa 14th Floor Nene Marg	Mukesh Arora Karn Villa 14th Floor Nene Road	None
21.	Banke Bihari Singh Dhaba Market Road Bhagalpur 72	Banke Bihari Singh Dhaba Market Road Bhagalpur 72	Banke Bihari Singh Dhaba Market Road Baghalpur 72	Banke Bihari Sinh Dhaba Market Road Bhagalpur 72	Banke Bihari Singh Dhaba Market Path Bhagalpur 72	None
22.	Mangesh Desai Rajghat Path 10, Shakti Jalandhar 69	Mangesh Desai Rajgarh Path 10, Shakti Jalandhar 69	Mangesh Desai Rajghat Path 10, Shakti Jalandar 69	Mangesh Desai Rajghat Path 10, Shakti Jalandhar 69	Mangesh Desai Rajghat Path 10, Sakthi Jalandhar 69	None
23.	Nikita Sane Begum Ghar 37/73/VII Hyderabad	Nikita Sane Begum Ghar 37/73/VII Hydrabad	Nikita Sane Begam Ghar 37/73/VII Hyderabad	Nikita Sane Begum Ghar 37/73/VI Hyderabad	Nikita Sane Begum Grah 37/73/VII Hyderabad	None

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24.	Shetye Raju 67, Namit Sadar Bazar Lucknow	Shetye Raju 67, Namit Sadar Bazar Lucknow	Shetye Raju 67, Namit Sadar Bazar Lucknow	Shette Raju 67, Namit Sadar Bazar Lucknow	Shetye Raju 67, Namit Sadar Bazar Lucknow	None
25.	Reema Sen 88, Gajali Society Marg Indore 57	Reema Sen 88, Gajali Society Marg Indore 75	Reema Sen 88, Gajali Society Marg Indore 57	Reema Sen 66, Gajali Society Marg Indore 57	Rima Sen 88, Gajali Society Marg Indore 57	None
26.	Nikhil Bhawe 5/36, Amita J. M. Road Madurai	Nikhil Bhawe 5/36, Amita J. M. Road Madurai	Nikhila Bhawe 5/36, Amita J. M. Road Madurai	Nikhil Bhawe 6/35, Amita J. M. Road Madurai	Nikhil Bhawe 5/36, Amita J. M. Marg Madurai	None
27.	Mukul Ojha Sector 52 Delhi Road Ludhiana 48	Mukul Ojha Sector 52 Delhi Road Ludhiana 48	Mukul Ojha Sector 52 Dehli Road Ludhiana 48	Mukul Oza Sector 52 Delhi Road Ludhiana 48	Mukul Ojha Sector 52 Delhi Road Ludhiana 48	None
28.	Neeraj Patel Geeta Bldg. Nidhi Nagar Bhopal 411053	Neeraj Patel Geeta Bldg. Nidhi Nagar Bhopal 411053	Neeraj Patel Githa Bldg. Nidhi Nagar Bhopal 411053	Neeraj Patil Geeta Bldg. Nidhi Nagar Bhopal 411053	Niraj Patel Geeta Bldg. Nidhi Nagar Bhopal 411053	None
29.	Jignesh Jain Nand Bhavan Maratha Marg Kolhapur 74	Jignesh Jain Nand Bhavan Maratha Marg Kolhapore 74	Jignesh Jain Nand Bhuvan Maratha Marg Kolhapur 74	Jignesh Jain Nand Bhavan Maratha Marg Kolhapur 74	Jigmash Jain Nand Bhavan Maratha Marg Kolhapur 74	None
30.	Rakesh Rathi Pathi Sadan 147, B Wing Faridabad	Rakesh Rathi Pathi Sadan 147, D Wing Faridabad	Rakesh Rathi Pathi Sadan 147, B Wing Faridabad	Rakesh Rathi Pati Sadan 147, B Wing Faridabad	Rakesh Rathi Pathi Sadan 174, B Wing Faridabad	None

Directions—(Q. 31–40) Refer to the data in the following table to answer these questions.

Number (in lakhs) of Male and Female Members in various States over the years

State	Years											
	1995		1996		1997		1998		1999		2000	
	M	F	M	F	M	F	M	F	M	F	M	F
P	56	49	60	62	58	63	62	64	63	60	65	61
Q	48	51	52	50	56	52	66	61	65	63	62	60
R	65	66	68	68	72	75	68	63	69	65	72	70
S	41	52	52	56	55	52	58	56	62	63	59	58
T	58	48	62	58	65	60	59	62	67	65	68	65
U	61	59	65	68	72	69	73	71	70	73	76	75
V	36	32	38	33	45	40	49	48	56	53	62	60
W	42	39	48	45	53	50	59	58	63	60	65	63

M = Male, F = Female

31. In the year 1998, how many females were there in State 'S' ?
 (A) 5800000 (B) 5600000
 (C) 580000 (D) 560000
 (E) None of these
32. In the year 1999, how many males were there in state W ?
 (A) 650000 (B) 630000
 (C) 6300000 (D) 6500000
 (E) None of these
33. In the year 1996, in which combination the number of members was minimum ?
 (A) Q–Female (B) W–Male
 (C) S–Male (D) V–Male
 (E) V–Female
34. In which year the number of female members was maximum in state 'S' ?
 (A) 2000 (B) 1998
 (C) 1997 (D) 1995
 (E) 1999
35. In the year 1997, how many male members were there in state T ?
 (A) 6500000 (B) 5500000
 (C) 5900000 (D) 6200000
 (E) None of these
36. In the year 1995, in which state the number of male and female members together was maximum ?
 (A) U (B) V
 (C) P (D) R
 (E) None of these
37. In which state in 1999 the number of male members and in 1998 female members was maximum ?
 (A) T (B) R
 (C) P (D) U
 (E) None of these
38. In these two years 2000 and 1998, in which state the number of male members was minimum ?
 (A) Q (B) V
 (C) S (D) W
 (E) None of these

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39. In the year 2000, how many male members were in state Q ?
 (A) 620000 (B) 6300000
 (C) 6200000 (D) 630000
 (E) None of these

40. In the years 1996 and 2000, in which state the number of female members was maximum ?
 (A) R (B) T
 (C) W (D) R and U Both
 (E) None of these

Directions—(Q. 41–45) In each question five words are given. You have to find which word will be fourth if they are arranged in alphabetic order.

41. (A) Desirous (B) Derogatory
 (C) Describe (D) Depository
 (E) Deprive
42. (A) Instant (B) Insignificant
 (C) Inseminate (D) Insatiate
 (E) Intelligent
43. (A) Oculate (B) Octave
 (C) Opaque (D) Onslaught
 (E) Ombudsman
44. (A) Hologram (B) Homologue
 (C) Hollow (D) Humanity
 (E) Hoarding

45. (A) Symptom (B) Syllabus
 (C) Synchrony (D) Symbolic
 (E) Sympathy

Directions—(Q. 46–50) Choose the appropriate group for the statement given in each question.

46. A large number of people were present in the meeting called by the ex-Chief Minister.
 (A) Political and Social
 (B) Economic and Commerce
 (C) Science and Health
 (D) Sports and Culture
 (E) Miscellaneous
47. The Government has announced the reduced price of the fuel ?
 (A) Political and Social
 (B) Economic and Commerce
 (C) Science and Health
 (D) Sports and Culture
 (E) Miscellaneous
48. Various groups of women celebrated Women's day on 8 March ?
 (A) Political and Social
 (B) Economic and Commerce
 (C) Science and Health
 (D) Sports and Culture
 (E) Miscellaneous

49. Inter-state Volleyball tournament was decided to be held in November for the school children.

- (A) Political and Social
 (B) Economic and Commerce
 (C) Science and Health
 (D) Sports and Culture
 (E) Miscellaneous

50. Heavy rain put hindrances on transmigration of railway

- (A) Political and Social
 (B) Economic and Commerce
 (C) Science and Health
 (D) Sports and Culture
 (E) Miscellaneous

Answers

1. (A) 2. (D) 3. (B) 4. (C) 5. (E)
 6. (D) 7. (C) 8. (A) 9. (E) 10. (B)
 11. (A) 12. (D) 13. (E) 14. (C) 15. (B)
 16. (B) 17. (E) 18. (D) 19. (C) 20. (A)
 21. (A) 22. (C) 23. (E) 24. (D) 25. (B)
 26. (A) 27. (D) 28. (E) 29. (C) 30. (B)
 31. (B) 32. (C) 33. (E) 34. (E) 35. (A)
 36. (D) 37. (D) 38. (B) 39. (C) 40. (E)
 41. (C) 42. (A) 43. (D) 44. (B) 45. (A)
 46. (A) 47. (B) 48. (A) 49. (D) 50. (E)

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Inspiring People