

**IBPS RRB PO : Mains Quant Memory Based : Practice Set**

**Directions (41-46):** Study the following table carefully to answer the questions that follow.

The table shows the online and offline contestants taking part in a survey from four villages and total contestant who have not completed the survey (online and offline)

**Note-1:** Total contestants in a village= Online contestants + Offline contestants

**2:** Total contestants in a village=Contestants who complete the survey + contestants who do not complete survey

| Village | Online contestants | Offline contestants | Contestants who do not complete the survey (online + offline) |
|---------|--------------------|---------------------|---------------------------------------------------------------|
| A       | 350                | 44%                 | 122                                                           |
| B       | 560                | 65%                 | 92                                                            |
| C       | 465                | 40%                 | 108                                                           |
| D       | 480                | 60%                 | 190                                                           |

41. In village A, if the number of online and offline contestants who didn't complete the survey are equal, then online contestants from village A who completed the survey are what percent (approximate) more than offline contestants who completed the survey from the same village?  
 (a) 27% (b) 22% (c) 35%  
 (d) 31% (e) 37%
42. Total number of contestants from village C who completed the survey are how much more or less than total number of contestants who completed the survey from village B?  
 (a) 841 (b) 857 (c) 837  
 (d) 851 (e) 860
43. If ratio of online & offline contestants who didn't completed the survey in village 'D' is 8 : 11 and 65% of online contestants who completed the survey are male and 60% of offline contestants who complete the survey are female, then find the difference between females of online contestants who completed the survey and males of offline contestants who completed the survey ?  
 (a) 102 (b) 88 (c) 104  
 (d) 108 (e) None of these
44. Find the difference between the number of offline contestants of village C and that of village A.  
 (a) 45 (b) 40 (c) 38  
 (d) 35 (e) None of these
45. Find sum the of difference between total number of online and offline contestants who participated in the survey from all four village.  
 (a) 950 (b) 980 (c) 960  
 (d) 735 (e) 840
46. The number of offline and online contestant together who completed the survey from village C are approximately what percent of total participants on survey from village D?  
 (a) 52% (b) 62% (c) 48%  
 (d) 56% (e) 58%

47. A and B started business with Rs 600 and Rs 500 respectively. After 4 months, C replaces B with X% of B's capital. After 1 year C's share out of the total profit 24000 is 5600. Find the value of X.  
 (a) 60 (b) 70 (c) 75  
 (d) 66 (e) 65
48. A train is 216 m long. It crosses a platform in 19 seconds with speed 21 m/s. If some 21 m long boxes are added in train and it crosses same platform, then it takes 26 seconds to cross the platform at same speed. How many boxes were added to the train?  
 (a) 7 (b) 10 (c) 12  
 (d) 5 (e) 8
49. A can complete a work in 36 days. B is 33.33% more efficient than A. In how many days both complete the work if they work on alternate days starting with A?  
 (a) 26 days (b) 30 days (c) 28 days  
 (d) 31 days (e) None of these
50. Rakesh adds 12% of his salary in PPF.  $\frac{3}{8}$ th of the remaining amount is spent on clothes and the difference between PPF and clothes expenses is Rs 10500. Remaining amount is spent on house rent and other expenses. If house rent expenses is Rs 1500 less than other expenses, then what is the house rent expenses?  
 (a) Rs. 12000 (b) Rs. 10000 (c) Rs. 13000  
 (d) Rs. 11000 (e) None of these

**Directions (51-55):** In each of the following series, one number does not follow a specific pattern. Find that number.

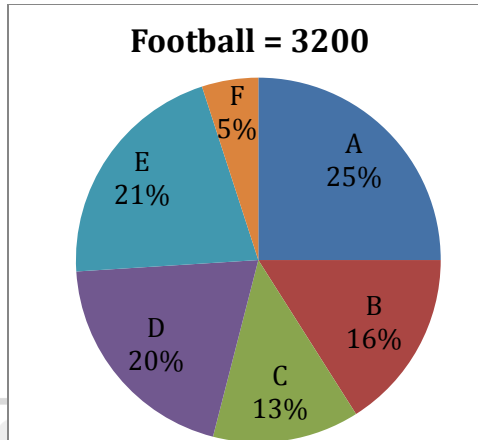
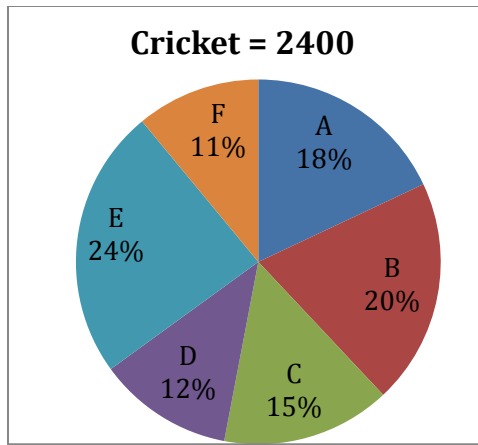
51. 200, 196, 192, 180, 160, 130, 88  
 (a) 180 (b) 196 (c) 200  
 (d) 88 (e) 160
52. 9.2, 10.6, 7.6, 12.4, 6, 14, 4.4  
 (a) 10.6 (b) 14 (c) 4.4  
 (d) 7.6 (e) 12.4
53. 1, 730, 975, 1054, 1081, 1090, 1093  
 (a) 730 (b) 975 (c) 1090  
 (d) 1093 (e) 1054
54. 3, 4, 9, 28, 113, 565, 3397  
 (a) 9 (b) 3397 (c) 565  
 (d) 4 (e) 28
55. 4, 6, 12, 30, 60, 315, 1260  
 (a) 12 (b) 1260 (c) 60  
 (d) 30 (e) 315

**Directions (56-60):** Study the following pie charts and answer the questions that follow:

Given below are two pie charts which shows the percentage distribution of cricket players and football players in 6 sports club out of the total cricket and football players respectively in these six sports club.

**Note: 1-** If it is said that number of players playing "either" football or cricket then it means sum of players playing football and cricket.

**2-** no players plays both games



56. What is the difference between the total number of players playing either Football or Cricket from club D and those playing Football from club C and E together ?  
 (a) 152 (b) 160 (c) 165  
 (d) 172 (e) None of these
57. The ratio of male to female players who play either Cricket or Football from club E is 9 : 7. Male players of club E playing either Cricket or Football are what percent of club F players playing Football ?  
 (a)  $408\frac{2}{3}\%$  (b)  $437\frac{3}{4}\%$  (c)  $438\frac{3}{4}\%$   
 (d)  $416\frac{2}{3}\%$  (e) None of these
58.  $\frac{5}{12}$ th of club E players playing Cricket are male and  $\frac{7}{13}$ th of club C players playing football are male. Find the sum of total number of female players from club E playing Cricket and total females from club C playing Football .  
 (a) 528 (b) 532 (c) 548  
 (d) 520 (e) 522
59. Players of club D and B who play Football are what percent (approximate) more or less than club D and F players playing Cricket ?  
 (a) 112% (b) 115% (c) 105%  
 (d) 109% (e) 95%
60. Find the difference in the number of players playing Cricket from club A and C together and those playing Football from club B, D and F together.  
 (a) 615 (b) 520 (c) 525  
 (d) 620 (e) 515
61. In bag A there are 5 red balls, X green balls and 7 yellow balls. Probability of drawing one green ball from bag A is

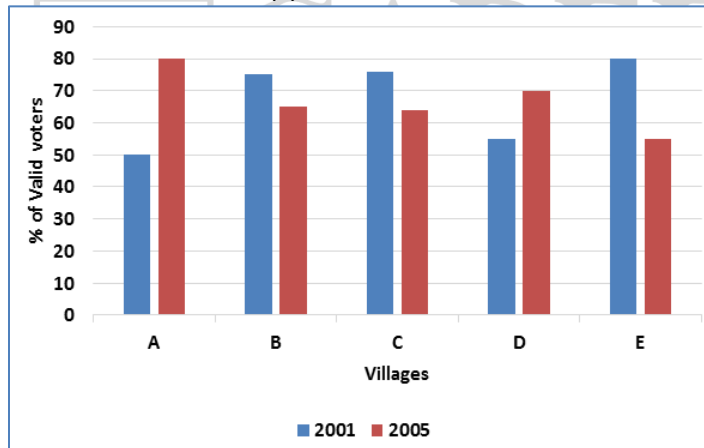
$\frac{2}{5}$ . In bag B there are (X-3) red balls, (X-4) green balls and 6 yellow balls. 2 balls are drawn from bag B. Find the probability that both the balls are red colour?

- (a)  $\frac{2}{23}$  (b)  $\frac{3}{21}$  (c)  $\frac{4}{21}$   
 (d)  $\frac{2}{21}$  (e) None of these
62. Sum of present ages of A and B is 41. Age of A 2 year hence is equal to age of C, 1 year ago. Age of A, 4 year hence is equal to age of B 1 year ago and ratio of present age of A and D is 3 : 4. Find the difference of age of C and D.  
 (a) 3 years (b) 5 years (c) 6 years  
 (d) 4 years (e) 8 years
63. Radius of a cylinder is equal to the side of an equilateral triangle having area  $16\sqrt{3}$  cm<sup>2</sup> and height of the cylinder is equal to the perimeter of the triangle. Then find the volume of cylinder.  
 (a) 1536 pi cu. cm (b) 1518 pi cu. Cm  
 (c) 1620 pi cu. Cm (d) 1460 pi cu. Cm  
 (e) None of these
64. A man invested Rs. 8000 in a scheme giving 20% p.a. compound interest for two year. The interest received from this scheme is 400% more than the interest on some other amount from another scheme giving 8% S.I. for 4 year. Find the total amount invested in both schemes.  
 (a) Rs. 11200 (b) Rs. 10200 (c) Rs. 12200  
 (d) Rs. 10400 (e) Rs. 10600
65. In one litre of mixture of alcohol and water, 30% is water. The amount of alcohol that must be added to the mixture, so that the part of water in the mixture becomes 15%, is:  
 (a) 1000 ml (b) 700 ml (c) 300 ml  
 (d) 900 ml (e) None of these
66. The surface area of a spherical part of a hemispherical bowl with a flat circular detachable cover, excluding the cover, is 616 sq cm. The area of the cover is 38.5 sq cm. What is the volume of the bowl?  
 (a) 1339 cm<sup>3</sup> (b) 1430 cm<sup>3</sup> (c) 1570 cm<sup>3</sup>  
 (d) Cannot be determined (e) None of these
- Directions (67-70):** The following questions are accompanied by three statements (A) or (I), (B) or (II), and (C) or (III). You have to determine which statement(s) is/are sufficient/necessary to answer the questions.
67. The ratio of the ages of Javed and Akhtar is 6 : 11. Find out the ratio of their ages 5 years ago.  
**A.** The difference of their ages is 25 years.  
**B.** The difference of their ages after 5 years will be 25 years.  
**C.** The sum of their ages is 85 years.  
 (a) Only A and C together are sufficient  
 (b) Anyone of A, B and C is sufficient  
 (c) Only A and B together are sufficient  
 (d) Any two of A, B and C are sufficient  
 (e) All together are necessary
68. What is the cost of painting the two adjacent walls of a rectangular hall which has no windows or doors?  
**I.** The area of the base of hall is 24 sqmetres.  
**II.** The breadth, length and the height of the hall are in the ratio of 4 : 6 : 5.  
**III.** Area of one wall is 30 square metres.  
 (a) Only I (b) Only II (c) Only III

- (d) Either I or III (e) Data inadequate
69. 8 men and 6 women can complete a piece of work in 21 days. How many days will it take for 12 men and 9 women to complete the same work?
- A. 6 men can complete the work in 42 days.  
 B. 7 women can complete the work in 63 days.  
 C. The amount of work done by a woman is four-sevenths of the work done by a man in one day.  
 (a) Any two of them (b) Any of them  
 (c) Only C (d) Either A or B only  
 (e) No need of any information
70. A train crosses another train in 10 sec. Find out the lengths of the trains.
- A. Ratio between the lengths the of second and first train is 4 : 5.  
 B. Ratio between the speed of first and second trains is 1 : 2.  
 C. The speed of first train is 36 km/hr.  
 (a) Only A and B together (b) Only B and C together  
 (c) Only A and C together  
 (d) Questions can't be answered even after using all the information  
 (e) None of these

**Directions (71-75):** The bar graph given below shows the percentage of valid voters in 5 villages in two years 2001 and 2005. Study the graph carefully to answer the based questions.

**NOTE-** Total voters in any year = Valid voters + Invalid voters



71. What is the difference between invalid voter of village C in the two given years if valid voters in 2005 in that village are 4000 which is  $31\frac{11}{19}\%$  more than valid voters of same village in 2001.  
 (a) 1190 (b) 1250 (c) 1290  
 (d) 1350 (e) 1365
72. If in village A in 2005, 2500 voters were declared invalid voters 10% of valid voters opted NOTA and the winner got 200 more votes than losing candidate, then find the total vote that losing candidate got in 2005 in village A.  
 (a) 4400 (b) 4600 (c) 5400  
 (d) 5200 (e) 4800
73. In village B if the total voters in 2001 were  $13\frac{1}{23}\%$  more than total voters in 2005, then find the ratio of invalid voters in 2001 to the invalid voters in 2005 in same village.  
 (a) 131 : 160 (b) 130 : 161 (c) 127 : 141  
 (d) 18 : 35 (e) None of these

74. If there are 1600 males in valid voters of village E in 2001 and the females in valid voters of same village and same year contributed is 36% of total valid voters, then find the percentage of invalid male voters in total population if total males in village E in 2001 were 2000.  
 (a) 16.2% (b) 12.4% (c) 14.6%  
 (d) 12.8% (e) 14.8%
75. If the ratio of valid voters of village B in 2001 and invalid voters of village D in 2005 was 16 : 3, then total voters of village D in 2005 were what percent more or less than those of village B in 2001 ?  
 (a)  $45\frac{2}{7}\%$  (b)  $53\frac{4}{5}\%$  (c)  $53\frac{1}{8}\%$   
 (d)  $52\frac{1}{8}\%$  (e)  $50\frac{2}{5}\%$

**Directions (76-80):** Study the following data to answer the questions that follow.

There are two companies namely A and B, which sell chairs, tables and wardrobes in 3 months August, September and October. The ratio of chair, tables and wardrobes sold by A in August is 42 : 36 : 23 while ratio of chairs sold by A in August, September and October is 14 : 23 : 27. Wardrobes sold by A in August is 230 less than chairs sold in September by A. In September 665 chairs, 400 tables and 210 wardrobes were sold by two companies together. B sold same number of chairs in Aug and September. Number of tables sold by company B in September was equal to number of chairs sold by A in August while number of wardrobes sold by A in August and B in September were equal. Company B sold total 1025 chairs in these three months together which was 480 more than total number of tables sold by A. Ratio of tables sold by A and B in August is 12 : 11 and in October is 35 : 38 respectively. Total number of items sold in August was 1075. Total number of wardrobes sold by A in October was 35 less than wardrobe sold by B in October, while sum of wardrobe sold by A and B in October is 205.

76. Total number of chairs sold by B in September and October is  
 (a) 750 (b) 725 (c) 705  
 (d) 715 (e) None of these
77. By what percent tables sold by A in October are more than wardrobes sold by B in October ?  
 (a) 40% (b) 12% (c) 25%  
 (d) 140% (e) None of these
78. Find the difference in number of chairs sold by A and B in August.  
 (a) 101 (b) 120 (c) 105  
 (d) 110 (e) 112
79. What is the ratio of number of tables sold by A in August to that of B in September ?  
 (a) 7 : 6 (b) 6 : 7 (c) 12 : 13  
 (d) 11 : 12 (e) None of these
80. Find the number of wardrobes sold by B in October.  
 (a) 80 (b) 120 (c) 115  
 (d) 95 (e) 125