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**Q1. In a group of 6 boys and 4 girls, four children are to be selected. In how many different ways can they be selected such that at least one boy should be there?**

- (a) 159
- (b) 194
- (c) 205
- (d) 209
- (e) 224

**Q2. There are 5 blue flags, 4 red flags and 3 green flags, in Debu's wardrobe. He has to select 4 flags from this set. In how many ways can he select these four flags such that there is at least one blue flag and exactly one green flag in them (Do not consider that the flags are in pairs)?**

- (a) 245
- (b) 240
- (c) 495
- (d) 60
- (e) 310

**Q3. Two bags A and B contain 7 red and 6 blue balls respectively. Some blue balls from bag B are taken out and kept into bag A. If probability of selecting two blue ball from bag A is  $\frac{1}{15}$ , find the number of blue balls drawn from bag B.**

- (a) 2
- (b) 4
- (c) 3
- (d) 5
- (e) 6

**Q4. A number is selected at random from the first 30 natural numbers. What is the probability that it is either a multiple of 2 or a multiple of 3?**

- (a)  $\frac{13}{30}$
- (b)  $\frac{2}{3}$
- (c)  $\frac{2}{5}$
- (d)  $\frac{17}{30}$
- (e)  $\frac{23}{30}$

**Q5. Three persons Dev, Deepak and Dudhiya Singh run a race. The probability of completing the race by them is  $\frac{1}{3}$ ,  $\frac{2}{5}$  and  $\frac{4}{5}$  respectively. Find the probability that at least two persons complete the race.**

- (a)  $\frac{12}{25}$
- (b)  $\frac{38}{75}$
- (c)  $\frac{17}{35}$
- (d)  $\frac{26}{49}$
- (e)  $\frac{37}{75}$

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**Directions (6–10):** Study the following graph and table carefully and answer the questions given below it.

**Percentage of obese men, obese women and obese children in America in various years**

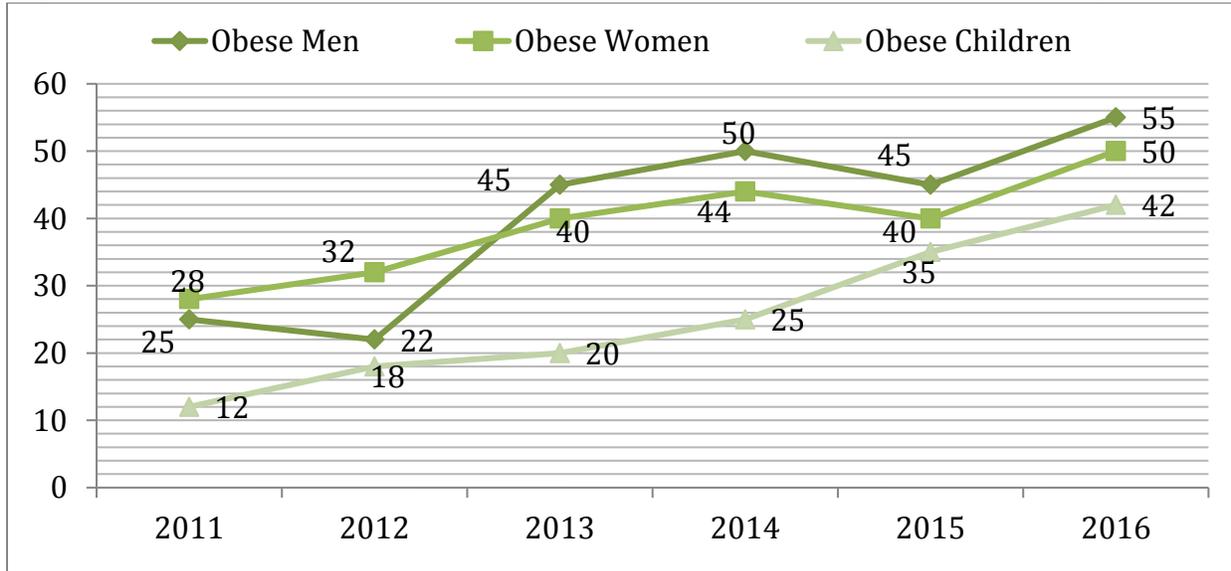


Table shows total number of Men, Women and Children in the US over the years

Years	Men	Women	Children
2011	540000	380000	150000
2012	750000	640000	210000
2013	630000	600000	120000
2014	660000	540000	160000
2015	700000	680000	200000
2016	780000	750000	450000

**Q6. What was the approximately average of obese men, obese women, and obese children in 2015?**

- (a) 199900
- (b) 210000
- (c) 219000
- (d) 205460
- (e) None of these

**Q7. Find the total no of men who are not suffering from obesity in year 2014 and 2015 together?**

- (a) 715000
- (b) 651000
- (c) 751000
- (d) 655700
- (e) None of these

**Q8. What was the respective ratio of the difference between the obese Men and Women in 2012 to the difference between total obese Women and Children in 2013?**

- (a) 199 : 1080
- (b) 105 : 687
- (c) 2 : 7
- (d) 110 : 1099
- (e) None of these

**Q9. What is the difference between the total number of obese women and obese children in all the year?**

- (a) 1055000
- (b) 1056000
- (c) 1017000
- (d) 1057000
- (e) None of these

**Q10. Total number of children not suffering from any obesity in 2015 and 2016 together is approximately what percent more or less than the total no of Men suffering from obesity in 2016 and total no. of women not suffering from obesity in 2013.?**

- (a) 40%
- (b) 50%
- (c) 55%
- (d) 60%
- (e) None of the above

**Directions (11-15): What should come in place of question mark (?) in the following number series?**

**Q11. 9, 31, 73, 141, (?)**

- (a) 164
- (b) 280
- (c) 239
- (d) 241
- (e) 251

**Q12. 35, 256, 451, 620, 763, (?)**

- (a) 680
- (b) 893
- (c) 633
- (d) 880
- (e) 780

**Q13. 948, 474, ?, 118.5, 59.25, 29.625**

- (a) 221
- (b) 190
- (c) 237
- (d) 189.06
- (e) 421

**Q14. 374, 355, 317, ?, 184, 89**

- (a) 260
- (b) 298
- (c) 279
- (d) 241
- (e) 341

**Q15. 1548, 516, 129, 43, ?**

- (a) 11
- (b) 10.75
- (c) 9.5
- (d) 12
- (e) 14.5

**Directions (16-20):** Table shows result of five states boards exam, percentage of total passed students out of total appeared students in each board, percentage of boys passed out of total passed students and total number of schools in each board. Some data are missing, which have to calculate according to given information in questions.

Boards	Passed % out of appeared	Boys passed% out of total passed	Total number of school in each state board
U.P. Board	64%	—	7500
M.P. Board	—	40%	5000
Rajasthan Board	—	65%	—
Delhi Board	80%	—	4500
Bihar Board	—	60%	—

**Q16. If average number of students appeared from each schools of U.P board are 360 and out of total passed students  $66\frac{2}{3}\%$  are girls. Find total passed boys in U.P. board are what percent of total students appeared in U.P board exam ?**

- (a)  $23\frac{1}{3}\%$
- (b)  $22\frac{1}{3}\%$
- (c)  $19\frac{1}{3}\%$
- (d)  $20\frac{1}{3}\%$
- (e)  $21\frac{1}{3}\%$

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**Q17. If total passed boys in M.P board are 4.2 lakh and ratio between total passed students to total appeared students in that board is 7 : 10. Then average students appeared from each school in M.P. board is how much less than average students appeared from each school in U.P. board. (take average of students appeared from each school in U.P. board from previous question)**

- (a) 65
- (b) 45
- (c) 50
- (d) 60
- (e) 55

**Q18. Total passed boys in Rajasthan board are 6.825 lakh and total passed students in Rajasthan board are 70% of total appeared students of that board. If average number of students appeared in Rajasthan board from each schools are 750, then find total number of schools in Rajasthan board?**

- (a) 2570
- (b) 2000
- (c) 1750
- (d) 1950
- (e) 2200

**Q19. If total number of passed students in Delhi board are 28.8 lakh and ratio between total passed boys to total passed girls of that board is 4 : 5. Then find total passed girls are what percent of total students appeared in Delhi board ?**

- (a)  $40\frac{4}{9}\%$
- (b)  $42\frac{4}{9}\%$
- (c)  $44\frac{4}{9}\%$
- (d)  $38\frac{4}{9}\%$
- (e)  $46\frac{4}{9}\%$

**Q20. If ratio between total appeared students to total passed students in Bihar board is 5 : 3 and total passed boys in Bihar state are 9 lakh. Find ratio between total schools in Delhi state board to Bihar board, if average of appeared from each schools in students Bihar board is 800 ?**

- (a) 39 : 25
- (b) 37 : 25
- (c) 36 : 29
- (d) 36 : 25
- (e) 25 : 36

**Q21.** There are two vessels A and B which contains mixture of sulphuric acid and nitrous oxide in the ratio of 7 : 2 and 3 : 4 respectively. Mixture of both vessels are mixed to obtain a mixture of 390 ml, in which quantity of nitrous oxide is 160 ml. Find ratio of quantity of mixture in vessel A quantity of mixture in vessel B?

- (a) 7 : 6
- (b) 6 : 7
- (c) 5 : 7
- (d) 7 : 9
- (e) 4 : 7

**Q22.** The surface area of a sphere is  $423.5 \text{ cm}^2$  less than total surface area of a hemisphere. If ratio between radius of hemisphere and sphere is 3 : 2, then find the radius of hemisphere?

- (a) 5.5 cm
- (b) 5 cm
- (c) 4 cm
- (d) 7 cm
- (e) 10.5 cm

**Q23.** A 240 meters long train crosses a 210 meters long train while running in opposite direction in 6 sec. Ratio between speed of longer train and smaller train is 7 : 8. If faster train crosses a platform in 9 sec, then find time taken by slower train to cross a bridge, which is 60 meters more long than platform?

- (a)  $\frac{142}{7} \text{ sec}$
- (b)  $\frac{136}{7} \text{ sec}$
- (c)  $\frac{90}{7} \text{ sec}$
- (d)  $\frac{148}{7} \text{ sec}$
- (e)  $\frac{123}{7} \text{ sec}$

**Q24.** Raman invested some amount in scheme 'P' which offer 20% C.I. p.a. while some amount in scheme 'Q' which offers 8% S.I. p.a. After 2 year ratio of interest, earned from 'P' to 'Q' is 11 : 6. Amount invested by Raman in scheme 'P' is what percent of the amount invested by him in scheme 'Q'.

- (a) 50%
- (b)  $33\frac{1}{3}\%$
- (c) 25%
- (d)  $66\frac{2}{3}\%$
- (e) 150%

**Q25.** A, B and C entered into a partnership business, A invested Rs. x, B invested 25% more than A and C invested 20% more than B. After 6 months, A left the business and B withdraw 50% of his investment and after 3 more months, B left the business whereas C increased his investment by  $16\frac{2}{3}\%$ . If at the end of year difference between profit share of C and (A + B) together is Rs. 10125, then find profit share of C ?

- (a) 56250 Rs.
- (b) 56500 Rs.
- (c) 55680 Rs
- (d) 55580 Rs.
- (e) 52680 Rs.

**Directions (26-30):** What will come in place of the “x” in the following questions.

**Q26.**  $24\%$  of 480 +  $30\%$  of 270 +  $48\%$  of 10 = x

- (a) 190
- (b) 195
- (c) 198
- (d) 201
- (e) 205

**Q27.**  $\sqrt{361} \times \frac{4}{38}$  of 26 +  $1024 \times 5 \div 4 = x$

- (a) 1261
- (b) 1332
- (c) 1164
- (d) 1020
- (e) 1380

**Q28.**  $x\%$  of  $360 \div 72 + \frac{2}{7}$  of 315 =  $28\%$  of 625

- (a) 1600
- (b) 1700
- (c) 1800
- (d) 1750
- (e) 1850

**Q29.**  $841 \div 116 \times 4 + 256 \sqrt{x} = 1082 \div 2$

- (a) 4
- (b) 9
- (c) 16
- (d) 25
- (e) 36



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**Q30.**  $68 \times 24 - 2\% \text{ of } 1600 = x^2$

- (a) 36
- (b) 38
- (c) 32
- (d) 29
- (e) 40

**Directions (31-35):** In the following questions two quantities are given for each question. Compare the numeric value of both the quantities and answers accordingly.

**Q31.** 'A', 'B' and 'C' together can complete a work in 48 days if they work alternatively. 'A' is 25% more efficient than 'B' who is  $33\frac{1}{3}\%$  less efficient than 'C'.

**Quantity I:** Difference between days taken by 'A' alone and 'C' alone to complete the work.

**Quantity II:** Days in which 'A', 'B' and 'C' together can complete half of the work.

- (a) Quantity I > Quantity II
- (b) Quantity I < Quantity II
- (c) Quantity I  $\geq$  Quantity II
- (d) Quantity I  $\leq$  Quantity II
- (e) Quantity I = Quantity II or No relation

**Q32.** Neeraj invested Rs. X in two different schemes 'A' and 'B' equally. Scheme A offers 10% p.a. at S.I and scheme B offers 20% p.a. at C.I. After 2 years he got total Rs.2560 interest from both the schemes.

**Quantity I:** Value of 'X'

**Quantity II:** Rs. 7200

- (a) Quantity I  $\geq$  Quantity II
- (b) Quantity I = Quantity II or No relation
- (c) Quantity I > Quantity II
- (d) Quantity I  $\leq$  Quantity II
- (e) Quantity I < Quantity II

**Q33.** Three partners invested capital in the ratio 2 : 7 : 9. The time period for which each of them invested was in the ratio of the reciprocals of the amount invested..

**Quantity I:** Profit share of the partner who brought in the **highest** capital if the profit is Rs. 1080

**Quantity II:** Profit share of the partner who brought in the **lowest** capital if the profit is Rs. 1080

- (a) Quantity I > Quantity II
- (b) Quantity I  $\geq$  Quantity II
- (c) Quantity I < Quantity II
- (d) Quantity I = Quantity II or No relation
- (e) Quantity I  $\leq$  Quantity II

**Q34. X started from a point A towards point B. After 2 hours. Y started from B towards A. By the time X travelled one-fifth of the total distance, Y had also travelled the same. Y's speed is thrice of that of X's speed.**

**Quantity I:** Difference in time (in hours) taken by X and Y to reach their respective destinations.

**Quantity II:** 12 hours

- (a) Quantity I = Quantity II or No relation
- (b) Quantity I  $\leq$  Quantity II
- (c) Quantity I  $\geq$  Quantity II
- (d) Quantity I < Quantity II
- (e) Quantity I > Quantity II

**Q35. A vessel contains 2.5 litres of water and 10 litres of milk. 20% of the contents of the vessel are removed. To the remaining contents, x litres of water is added to reverse the ratio of water and milk. Then y litres of milk is added again to reverse the ratio of water and milk.**

**Quantity I:** Value of 'y'

**Quantity II:** Value of 'x'

- (a) Quantity I = Quantity II or No relation
- (b) Quantity I  $\leq$  Quantity II
- (c) Quantity I  $\geq$  Quantity II
- (d) Quantity I < Quantity II
- (e) Quantity I > Quantity II

**Q36. A shopkeeper buys 144 items at 90 paise each. On the way 20 items are broken. He sells the remainder at Rs. 1.20 each. His gain per cent correct to one place of decimal is**

- (a) 13.8%
- (b) 14.6%
- (c) 14.8%
- (d) 15.8%
- (e) None of these

**Q37. The ratio of the number of boys and girls in a school is 2 : 3. If 25% of the boys and 30% of the girls are scholarship holders, the percentage of the school students who are not scholarship holders is**

- (a) 72%
- (b) 36%
- (c) 54%
- (d) 60%
- (e) None of these

**Q38.** A boat goes 24 km upstream and 28 km downstream in 6 hours. It goes 30 km upstream and 21 km downstream in 6 hours and 30 minutes. The speed of the boat in still water is

- (a) 8 km/hr
- (b) 9 km/hr
- (c) 12 km/hr
- (d) 10 km/hr
- (e) None of these

**Q39.** A takes three times as long as B and C together to do a job. B takes four times as long as A and C together to do the work. If all the three, working together can complete the job in 24 days, then the number of days, A alone will take to finish the job is

- (a) 100
- (b) 96
- (c) 95
- (d) 90
- (e) None of these

**Q40.** 20 litres of a mixture contains 20% alcohol and the rest water. If 4 litres of water be mixed in it, the percentage of alcohol in the new mixture will be

- (a)  $33\frac{1}{3}\%$
- (b)  $16\frac{2}{3}\%$
- (c) 25%
- (d)  $12\frac{1}{2}\%$
- (e) None of these

**Directions (41-45):** In these questions, two equations numbered I and II are given. You have to solve both the equations and give answer:

- (a) if  $x < y$
- (b) if  $x > y$
- (c) if  $x \leq y$
- (d) if  $x \geq y$
- (e) if relationship between  $x$  and  $y$  cannot be determined

**Q41. I.**  $x^2 - 9x + 18 = 0$

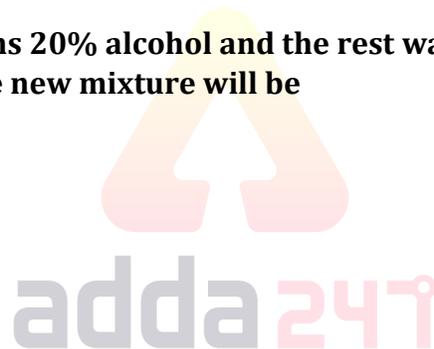
**II.**  $5y^2 - 22y + 24 = 0$

**Q42. I.**  $6x^2 + 11x + 5 = 0$

**II.**  $2y^2 + 5y + 3 = 0$

**Q43. I.**  $x^2 + 10x + 24 = 0$

**II.**  $y^2 - \sqrt{625} = 0$



**Q44. I.**  $10x^2 + 11x + 1 = 0$

**II.**  $15y^2 + 8y + 1 = 0$

**Q45. I.**  $15x^2 - 11x + 2 = 0$

**II.**  $10y^2 - 9y + 2 = 0$

**Directions (46-50):** Read the following information carefully and answer the questions given below it.

Five sports hockey, Cricket, Tennis, Badminton and Baseball are included in a sports Competition. The total number of players in this sports competition is 800. The ratio between the total woman and total man players is 1 : 3.

25% players are in cricket out of total players, 110 player play Badminton, 10% of total players play tennis. Hockey players are two times of Badminton players, while remaining players play Baseball. 30% of cricket players are woman.

Half of woman cricketers are equal to woman badminton players. 10% of total Hockey players are equal to woman tennis players. Hockey and Baseball have equal woman players.

**Q46. What is the ratio between the woman hockey players and man badminton players?**

- (a) 20 : 13
- (b) 11 : 20
- (c) 13 : 20
- (d) 11 : 23
- (e) None of these

**Q47. What is the total number of man players in hockey, cricket and baseball?**

- (a) 464
- (b) 454
- (c) 462
- (d) 432
- (e) None of these

**Q48. Woman baseball players are what percent of man hockey players?**

- (a) 25%
- (b) 34%
- (c) 24%
- (d) 15%
- (e) None of these

**Q49. What is the difference between the man baseball players and woman tennis players?**

- (a) 134
- (b) 136
- (c) 122
- (d) 126
- (e) None of these

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**Q50. In which sports, women are maximum, and men are minimum?**

- (a) Cricket and badminton
- (b) Cricket and hockey
- (c) Baseball and cricket
- (d) Cricket and Tennis
- (e) Tennis and Hockey

**Directions (51-55): What should come in place of the question mark (?) in following number series problems?**

**Q51. 18, 27, 9, 36, 0, ?**

- (a) 27
- (b) 36
- (c) 45
- (d) 54
- (e) 63

**Q52. 729, 81, ?, 27, 81, 9**

- (a) 27
- (b) 243
- (c) 233
- (d) 241
- (e) 162

**Q53. 586, 587, 586, 581, 570, ?**

- (a) 562
- (b) 551
- (c) 552
- (d) 548
- (e) 554

**Q54. 848, 422, 208, 100, 45, ?**

- (a) 16.5
- (b) 18
- (c) 22.5
- (d) 24
- (e) None of these

**Q55. 15, 19, 83, 119, 631, ?**

- (a) 731
- (b) 693
- (c) 712
- (d) 683
- (e) 709



**Q56. The average age of Abhishek, Veer and Neeraj is 27 years and the average of the age of Abhishek, Veer and Gopal is 32 years. If the age of Gopal is 41 years. Then find the average age of Neeraj and Gopal.**

- (a) 28 years
- (b) 29.5 years
- (c) 33.5 years
- (d) 35 years
- (e) 36 years

**Q57. Ritu and Neha started a business with capital Rs. 12000 and Rs. 16000 respectively. After 6 months Sonakshi also joined the business with capital Rs. 22000. At the end of year average of profit share of Ritu and Sonakshi is Rs. 1725. Find the total annual profit of the business.**

- (a) Rs. 4500
- (b) Rs. 5850
- (c) Rs. 5360
- (d) Rs. 4800
- (e) Rs. 6000

**Q58. Satish calculates his loss percentage on selling price in place of cost price and found 20% loss. He again calculates it and found that he sold articles at Rs. 96 less than cost price. Find the cost price of article.**

- (a) Rs. 800
- (b) Rs. 460
- (c) Rs. 644
- (d) Rs. 680
- (e) Rs. 576

**Q59. Average age of Raj, his wife Arti and his son Maddy 2 year before was 42 years. His son Maddy married 1 year before and the average of present ages of the family is 38 years. Then find the present age of Maddy's wife.**

- (a) 20 years
- (b) 19 years
- (c) 23 years
- (d) 25 years
- (e) None of these

**Q60. Satish and Veer started a business with initial capital of Rs. 35000 and Rs. 40000 respectively. After 4 months Satish withdrew  $\frac{1}{7}$ th of his initial capital and Veer added 25% extra money of his initial capital. If after 6 months of starting the business Lalit also joined with capital Rs. 45000 and total yearly profit is Rs. 21780, then find the profit share of Satish.**

- (a) Rs. 8250
- (b) Rs. 7540
- (c) Rs. 6840
- (d) Rs. 6400
- (e) Rs. 7280



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