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Quantitative Aptitude

Direction: What should come in place of the question mark '?' in the following number series?

Q1. 48, 63, 52, 67, ?, 71

- a. 52
- b. 60
- c. 54
- d. 62
- e. 56

Q2. 17, 29, 53, 101, 197, ?

- a. 391
- b. 374
- c. 383
- d. 375
- e. 389

Q3. 15, 24, 52, 117, ?, 460

- a. 237
- b. 243
- c. 257
- d. 251
- e. 239

Q4. 16, 21, 31, 45, 62, ?

- a. 81
- b. 89
- c. 87
- d. 78
- e. 93

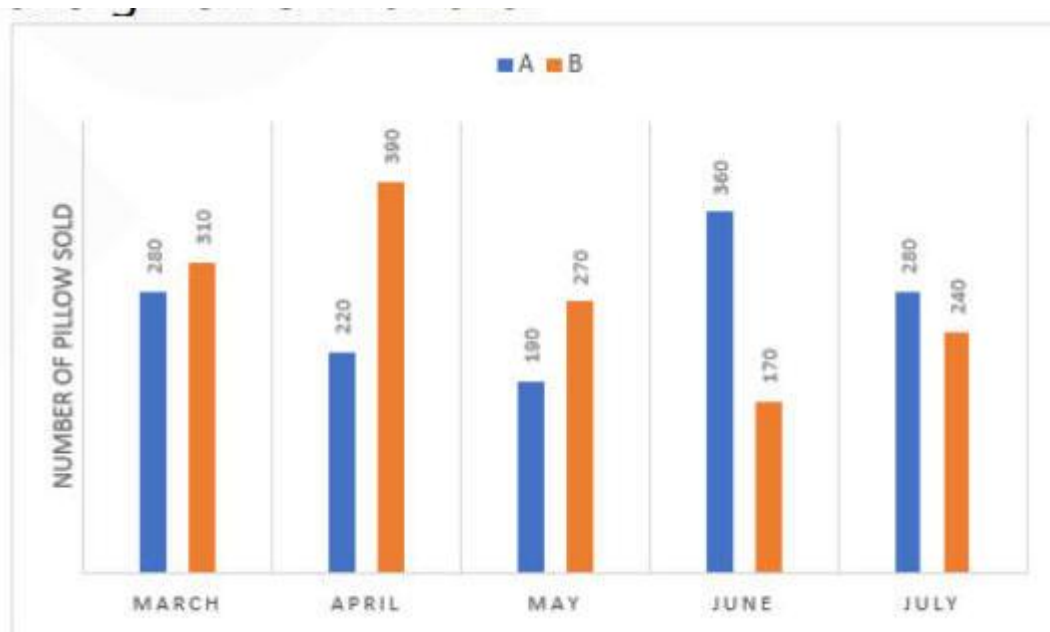
Q5. 6, 11, 27, 86, ?, 1750

- a. 349
- b. 341
- c. 355
- d. 351
- e. 363

Q6. 5, 14, 78, 103, 319, ?

- a. 368
- b. 372
- c. 364
- d. 354
- e. 378

Direction: Study the following graph carefully and answer the questions given below:



Q. The given bar graph depicting the number of pillows sold by two stores A and B in the given 5 months.

Q7. What is the respective ratio between total number of pillows sold by store A in June and July together and that by store B in May and June together?

- a. 14 : 9
- b. 16 : 13
- c. 14 : 11
- d. 12 : 7
- e. 16 : 11

Q8. If the total number of pillows sold by stores A and B together in August is 230 more than that sold in May, then what is the total number of pillows sold by stores A and B together in August?

- a. 690
- b. 720
- c. 710
- d. 680
- e. 700

Q9. The respective ratio between number of pillows sold by store A in February and March is 11 : 7 and the respective ratio between number of pillows sold by store B in February and April is 9 : 13. What is the difference between number of pillows sold by stores A and B in February?

- a. 170
- b. 160
- c. 150
- d. 200
- e. 180

Q10. What is the percentage increment in the number of pillows sold by store A from April to June?

- a. 700/11
- b. 762/11
- c. 782/11
- d. 720/11
- e. 675/11

Q11. What is the average number of pillows sold by store B in March, April and June?

- a. 280
- b. 300
- c. 270
- d. 310
- e. 290

Q12. If the total number of pillows sold by stores A and B together in December is 15% less than that in July, then what is the total number of pillows sold by stores A and B together in December?

- a. 468
- b. 456
- c. 436
- d. 442
- e. 454

Q13. A shopkeeper mixed two varieties of rice at Rs. 24/kg and Rs. x /kg in the ratio 2 : 3 respectively and sold the mixture at Rs. 29.88/kg at 20% profit. Find the value of x .

- a. 25
- b. 25.5
- c. 27
- d. 30
- e. None of these

Q14. There are 8 blue, 5 yellow and 7 red balls. What is the probability of choosing either 1 yellow or red ball?

- a. $\frac{2}{3}$
- b. $\frac{3}{4}$
- c. $\frac{4}{5}$
- d. $\frac{3}{5}$
- e. $\frac{1}{2}$

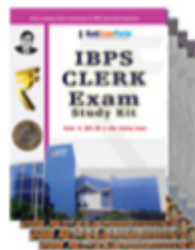
Q15. Two pipes A and B can fill a tank in 60 hours and 40 hours respectively and pipe C can empty the tank in 15 hours. If pipes A and B are opened for 12 hours, then pipe C is also opened. After how many hours, the tank will be emptied?

- a. 15 hours
- b. 20 hours
- c. 12.5 hours
- d. 10 hours
- e. None of these

Q16. In a 96 litre mixture of water and milk, water is only 40%. The milkman sold 12 litres of the mixture to a customer and then added 10 litres of pure milk and 15 litres of water in the mixture. What is the approximate percentage of water in the final mixture?

- a. 47
- b. 33

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- c. 45
- d. 42
- e. 38

Direction: In the following question two equations are given in variables X and Y. You have to solve these equations and determine relation between X and Y.

Q17. I. $3x^2 + 23x + 42 = 0$

II. $y^2 - 42y + 437 = 0$

- a. $X > Y$
- b. $X < Y$
- c. $X \geq Y$
- d. $X \leq Y$
- e. $X=Y$ or No relation can be established

Direction: In the following question two equations are given in variables X and Y. You have to solve these equations and determine relation between X and Y.

Q18. I. $x^2 + 6x - 135 = 0$

II. $y^2 + 10y - 144 = 0$

- a. $X > Y$
- b. $X < Y$
- c. $X \geq Y$
- d. $X \leq Y$
- e. $X=Y$ or No relation can be established

Direction: In the following question two equations are given in variables X and Y. You have to solve these equations and determine relation between X and Y.

Q19. $X^2 = 144$

$Y^2 = 1728$

- a. $X > Y$
- b. $X < Y$

- c. $X \geq Y$
- d. $X \leq Y$
- e. $X=Y$ or No relation can be established

Direction: In the following question two equations are given in variables X and Y. You have to solve these equations and determine relation between X and Y.

**Q20. $x^2 = 25$
 $y^2 - 1 = 8$**

- a. $X > Y$
- b. $X < Y$
- c. $X \geq Y$
- d. $X \leq Y$
- e. $X=Y$ or No relation can be established

Direction: In the following question two equations are given in variables X and Y. You have to solve these equations and determine relation between X and Y.

**Q21. $x^2 - 10x + 24 = 0$
 $y^2 - 12y + 35 = 0$**

- a. $X > Y$
- b. $X < Y$
- c. $X \geq Y$
- d. $X \leq Y$
- e. $X=Y$ or No relation can be established

Direction: In the following question two equations are given in variables X and Y. You have to solve these equations and determine relation between X and Y.

**Q22. $2x^2 - 19x + 45 = 0$
 $y^2 - 11y + 30 = 0$**

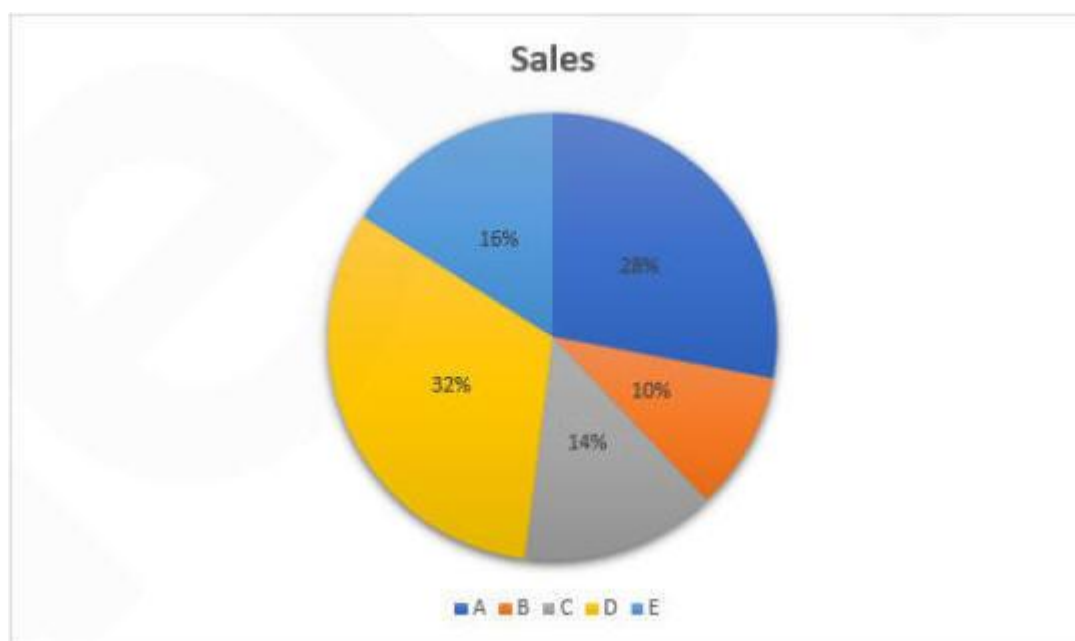
- a. $X > Y$
- b. $X < Y$

- c. $X \geq Y$
- d. $X \leq Y$
- e. $X=Y$ or No relation can be established

Direction: Study the piechart carefully and answer the following questions:

Given below is the pie chart depicting the total number of shirts sold by 5 stores in the year 2003.

Total number of shirts sold = 2800



Q23. Store D sold only two types of shirts formal and casual. If the average of the number of formal shirts sold by store D is 664, then what is the respective ratio between the number of formal and casual shirts sold by store D?

- a. 83 : 27
- b. 83 : 21
- c. 83 : 31
- d. 83 : 29
- e. 83 : 19

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Q24. If the average number of shirts sold by store C in 2003 and 2004 is 343, then the number of shirts sold by store C in 2004 is what percent less than the number of shirts sold by the same store in 2003?

- a. 20%
- b. 35%
- c. 30%
- d. 15%
- e. 25%

Q25. What is the difference between number of shirts sold by A and that by B?

- a. 518
- b. 498
- c. 516
- d. 496
- e. 504

Q26. What is the central angle correspondent to the number of shirts sold by D?

- a. 120.8°
- b. 112.4°
- c. 108.6°
- d. 124.4°
- e. 115.2°

Q27. Number of shirts sold by E increased by 50% from 2003 to 2004 & decreased by 25% from 2004 to 2005. What is the number of shirts sold by E in 2005?

- a. 504
- b. 488
- c. 516
- d. 498
- e. 518

28. Raj give 60% of his monthly salary to his wife and the remaining he invested in mutual fund. Out of the money his wife got, she spent 20% on groceries, 30% on rent and remaining amount of Rs. 18,000 she spent on buying gold. What is Raj's monthly salary?

- a. Rs. 50,000
- b. Rs. 76,000
- c. Rs. 40,000
- d. Rs. 60,000
- e. Rs. 80,000

Q29. 4 years ago, the ratio of A's and B's age is 5 : 3. The sum of the present ages of A, B and C is 80 years. If C's present age is equal to the sum of present ages of A and B. What is present age of A?

- a. 24 years
- b. 20 years
- c. 22 years
- d. 26 years
- e. 18 years

Q30. Find the odd one out.

- a. GF
- b. ST
- c. QT
- d. RU
- e. ED



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