

SEBI Grade A Quantitative Aptitude

Q1. A man completes a journey in 20 hours. He travels first half of the journey at the rate of 12 kmph and second half at the rate of 18 kmph. Find the total journey in km.

- (a) 244
- (b) 288
- (c) 226
- (d) 297
- (e) 264

Q2. Two train of equal length cross a pole in 7 sec and 9 sec respectively. If sum of length of train is 1260m then find out difference between speed of both trains?

- (a) 12m/s
- (b) 15m/s
- (c) 18m/s
- (d) 20m/s
- (e) 17m/s

Q3. A boat goes 11 kmph along the stream and x kmph against the stream if the speed of current 3 kmph then find out the value of x.

- (a) 3 kmph
- (b) 4 kmph
- (c) 5 kmph
- (d) 6 kmph
- (e) 7 kmph

Q4. Pipes A and B can fill a tank in 5 and 6 hours, respectively. Pipe C can fill it in 30 hours. If all the three pipes are opened together, then in how much time the tank will be filled up?

- (a) $3\frac{1}{2}$ hours
- (b) $2\frac{1}{2}$ hours
- (c) $3\frac{1}{3}$ hours
- (d) $1\frac{1}{2}$ hours
- (e) 2 hours

Q5. The length and breadth of rectangle is in ratio 3:2. Area of rectangle is 294 cm square. Then find out the perimeter of square whose sides are 3 times of length of rectangle.

- (a) 252 cm
- (b) 287 cm
- (c) 198 cm
- (d) 152 cm
- (e) 186 cm

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Directions (6-10): Equation number I and II are given. You have to solve both the questions and answer.

Q6. I. $x^2 = 144$

II. $y^2 - 24y + 144 = 0$

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

Q7. I. $2x^2 - 9x + 10 = 0$

II. $2y^2 - 13y + 20 = 0$

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

Q8. I. $2x^2 + 15x + 27 = 0$

II. $2y^2 + 7y + 6 = 0$

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

Q9. I. $3x^2 - 13x + 12 = 0$

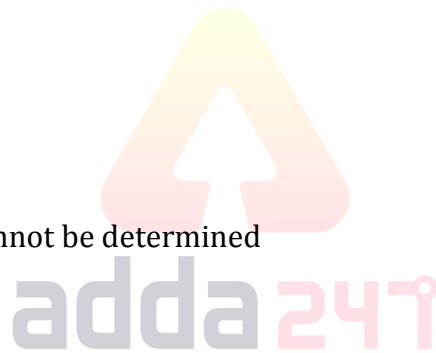
II. $3y^2 - 13y + 14 = 0$

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

Q10. I. $5x^2 + 8x + 3 = 0$

II. $3y^2 + 7y + 4 = 0$

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



Directions (11-15): What will come in place of (?) in the following number series?

Q11. ?, 578, 679, 801, 946, 1116, 1313

- (a) 511
- (b) 513
- (c) 519
- (d) 528
- (e) 534

Q12. 2, 3, 4, 6, 8, 15, 16, ?

- (a) 48
- (b) 56
- (c) 64
- (d) 72
- (e) 81

Q13. 728, 999, 1330, 1727, 2196, 2743, ?

- (a) 3542
- (b) 3424
- (c) 3374
- (d) 3142
- (e) 3788

Q14. 31, 35, 44, 60, 85, 121, ?


- (a) 170
- (b) 169
- (c) 154
- (d) 187
- (e) 194

Q15. 1, 3, 4, 7, 11, 18, 29, ?

- (a) 48
- (b) 42
- (c) 45
- (d) 49
- (e) 47



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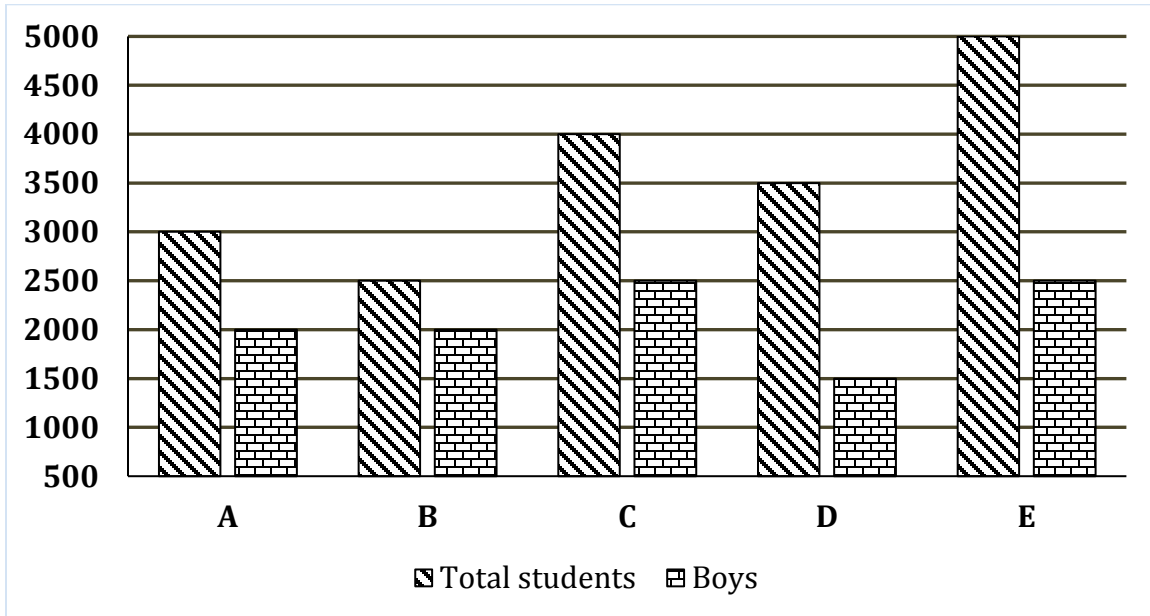


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Directions (16-20): The given bar graph shows the total no. of students of 5 different schools and no. of boys from each school.

Study the graph carefully and answer the following questions.



Q16. What is the ratio between no. of boys of school B and no. of girls of school C?

- (a) 4 : 3
- (b) 1 : 1
- (c) 5 : 4
- (d) 3 : 4
- (e) 4 : 5

Q17. No. of girls of school B and C together is what percent of total students of school A?

- (a) 150%
- (b) 125%
- (c) 100%
- (d) 66.67%
- (e) 75%

Q18. What is the average no. of boys in school A, B, C and E?

- (a) 1800
- (b) 2250
- (c) 2300
- (d) 1950
- (e) 2875

Q19. Girls in school A and B together are what percent more/less than girls of school B and D together?

- (a) 60%
- (b) 50%
- (c) 40%
- (d) 70%
- (e) 80%

Q20. No. of boys in school B and E are how much more/less than girls in school A, C and D?

- (a) 500
- (b) 1000
- (c) 1500
- (d) 2000
- (e) 0

Q21. An article is sold at $22\frac{1}{2}\%$ profit. If its cost price is increased by Rs 40 and at the same time if its selling price is also increased by Rs 35, the percentage of profit becomes 15%. Find the cost price.

- (a) Rs $156\frac{1}{3}$
- (b) Rs $156\frac{2}{3}$
- (c) Rs $146\frac{1}{3}$
- (d) Rs $146\frac{2}{3}$
- (e) None of these

Q22. Rohit starts a business with Rs. 6,500 and after 8 months Shyam joins Rohit as his partner. After 4 years from the start of the business the profit is divided in the ratio of 13 : 12. What is Shyam's contribution in the capital?

- (a) Rs. 7400
- (b) Rs. 7200
- (c) Rs. 7250
- (d) Rs.7630
- (e) Rs.7480

Q23. In an election between two candidates, the candidate getting $\frac{3}{5}$ th of the votes polled, is elected by a majority of 14000 votes. The number of votes got by the winning candidate is

- (a) 28000
- (b) 32000
- (c) 42000
- (d) 46000
- (e) 44000

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Q24. The sum of 8 consecutive odd numbers is 656. Also average of four consecutive even numbers is 87. What is the sum of the smallest odd number and second largest even number?

- (a) 165
- (b) 175
- (c) 163
- (d) Can't be determined
- (e) None of these

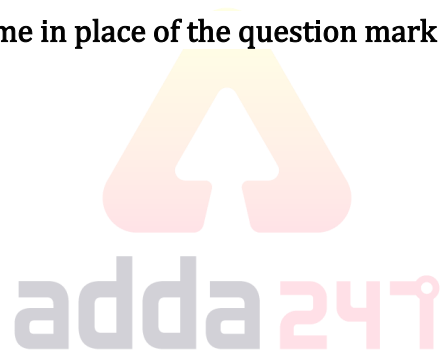
Q25. 3 cards are taken from a pack of cards. What is the Probability of getting 2 red cards and 1 black card?

- (a) $\frac{14}{37}$
- (b) $\frac{13}{34}$
- (c) $\frac{11}{34}$
- (d) $\frac{25}{34}$
- (e) $\frac{15}{34}$

Directions (26-30): What should come in place of the question mark (?) in the following questions?

Q26. $\sqrt{\sqrt{6400} + \sqrt{1681}} = ?^2 - 5$

- (a) 16
- (b) 4
- (c) 36
- (d) 6
- (e) 12



Q27. $2\frac{1}{17} \times 4\frac{6}{7} \div 3\frac{1}{3} - 2\frac{1}{2} = ? - 3\frac{1}{2}$

- (a) 3
- (b) 6
- (c) 5
- (d) 4
- (e) 7

Q28. $37\% \text{ of } 400 - 17\% \text{ of } 180 - ? = 5\frac{2}{5}$

- (a) 112
- (b) 102
- (c) 128
- (d) 121
- (e) 142

Q29. $\sqrt[3]{1331} \div \sqrt[2]{2401} \times \sqrt[3]{343} = \frac{?}{7}$

- (a) 121
- (b) 144
- (c) 11
- (d) 12
- (e) 132

Q30. $15\% \text{ of } 1500 + 22\% \text{ of } 1100 - 13\% \text{ of } 1500 = ?$

- (a) 254
- (b) 272
- (c) 253
- (d) 294
- (e) 239

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