

BOOKS



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Directions (1-15): Find the wrong term which does not follow the pattern that other numbers follow in the following number series:

Q1. 28, 66, 128, 224, 348, 518

- (a) 348
- (b) 224
- (c) 66
- (d) 518
- (e) 28

Q2. 12, 22, 63, 246, 1235, 7404

- (a) 246
- (b) 7404
- (c) 12
- (d) 63
- (e) 1235

Q3. 1634, 905, 562, 439, 410, 409

- (a) 439
- (b) 410
- (c) 409
- (d) 1634
- (e) 905

Q4. 5, 25, 129, 780, 5441, 43529

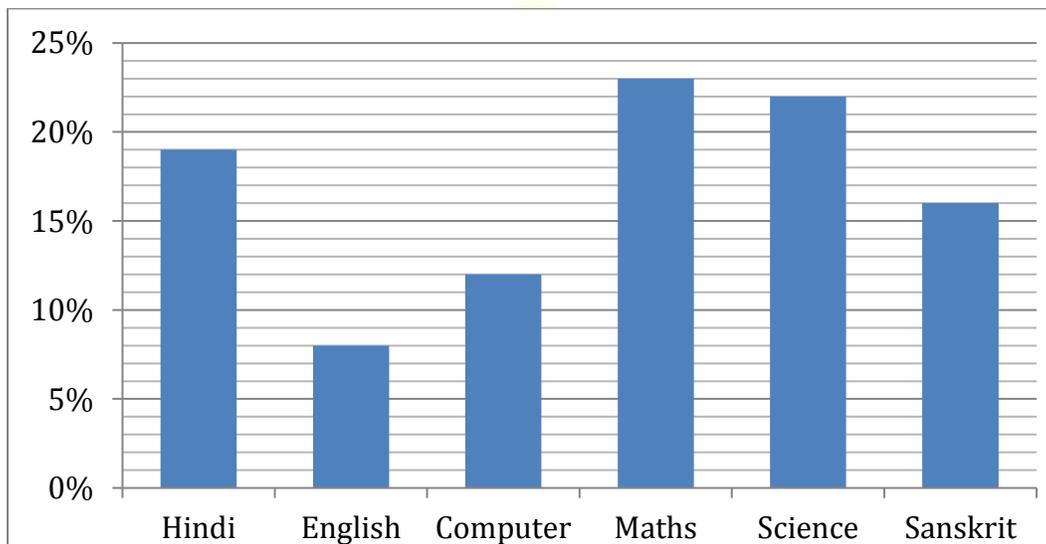
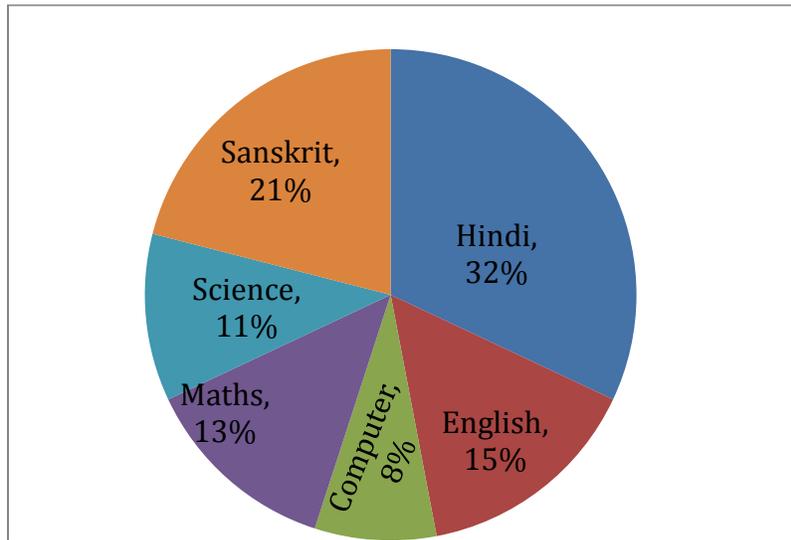
- (a) 5441
- (b) 129
- (c) 25
- (d) 780
- (e) 5

Q5. 16, 40, 100, 250, 630, 1562.5

- (a) 630
- (b) 40
- (c) 16
- (d) 100
- (e) 250



Direction (6-10)-Percentage of students interested in studying different subjects (Hindi, English, Computer, Math, Science, Sanskrit) in Pie chart & percentage of girls interested in studying these subjects in bar graph.



RATIO OF BOYS: GIRL = 5:3
TOTAL STUDENTS = 48,000

Q6. For which of the subjects, the ratio of percentage of student interested in that subject to the percentage of girls interested in that subject is minimum?

- (a) Science
- (b) Computer
- (c) Math
- (d) English
- (e) None of these

Q7. What is the difference between the no. of girls interested in studying computer and that of science?

- (a) 1.5 thousand
- (b) 2.2 thousand
- (c) 1.8 thousand
- (d) 1.9 thousand
- (e) None of these

Q8. What is the ratio of the no. of boys interested in Computer and English together to that of girls interested in studying Sanskrit and Math together?

- (a) 124 : 117
- (b) 128 : 119
- (c) 19 : 17
- (d) 23 : 19
- (e) None of these

Q9. What is the ratio of the no. of students interested in studying maths and Sanskrit together to that interested in Hindi and Science together?

- (a) 23 : 32
- (b) 34 : 43
- (c) 101 : 130
- (d) 11 : 32
- (e) None of these

Q10. No. of girls studying Hindi and English together is approximately what percent of the no. of boys studying the same subject?

- (a) 27%
- (b) 30%
- (c) 17%
- (d) 23%
- (e) 21%

Directions (11-15): In the given question, 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 $x \geq y$
- (d) If $x \leq y$
- (e) If relationship between x and y cannot be established.

Q11. I. $2x^2 - 7x + 3 = 0$

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

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Q12. I. $4x^2 + 16x + 15 = 0$

II. $2y^2 + 3y + 1 = 0$

Q13. I. $9x^2 - 45x + 56 = 0$

II. $4y^2 - 17y + 18 = 0$

Q14. I. $2x^2 + 11x + 14 = 0$

II. $2y^2 + 15y + 28 = 0$

Q15. I. $6x^2 + 11x + 4 = 0$

II. $4y^2 - 7y - 2 = 0$

Q16. A 25 percent gain is made by selling the mixture of two types of sugar at Rs 450 per kg. If one type of sugar costing Rs 560 per kg was mixed with 185 kg of the other type of sugar which cost is Rs.280 per kg, how many kilograms of the former was mixed

- (a) 76 kg
- (b) 75 kg
- (c) 74 kg
- (d) 71 kg
- (e) 68 kg

Q17. 21 men can complete a piece of work in 16 days while 10 women can complete the same piece of work in 26 days. 24 men start working and are replaced by 13 women after 7 days. In how many days will 13 women finish the remaining work?

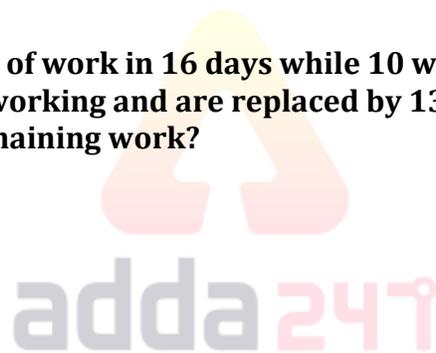
- (a) 11 days
- (b) 14 days
- (c) 13 days
- (d) 10 days
- (e) 15 days

Q18. In how many ways a team of 7 players out of 6 boys and 5 girls can be made such that at most 3 girls are there in the team ?

- (a) 215
- (b) 218
- (c) 220
- (d) 214
- (e) 216

Q19. Shreya picks a letter from the set of English alphabets and finds it to be a consonant. What is the probability that the letter is either S or X?

- (a) $\frac{1}{26}$
- (b) $\frac{5}{6}$
- (c) $\frac{2}{21}$
- (d) $\frac{5}{26}$
- (e) $\frac{2}{5}$



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Q20. There are 2 bottles containing a mixture of wine, water and alcohol. The first bottle contains wine, water and alcohol in the ratio 7 : 9 : 4. The second bottle contains water and wine in the ratio 6 : 5. 2litre of the first and 3 litres of the second are mixed together. What fraction of the mixture is alcohol in the final mixture?

- (a) $\frac{1}{25}$
- (b) $\frac{6}{23}$
- (c) $\frac{2}{25}$
- (d) $\frac{6}{29}$
- (e) None of these

Direction (21-25): Table given below shows total number of employees (in % out of total employees) working in given companies. Study the data carefully and answer the following questions

	Out of total employee's percentage of employees is given according to their ages		
	A	B	C
30 and above	50%	70%	60%
40 and above	40%	30%	40%
50 and above	20%	20%	30%

Total employees in A = 1200

Total employees in B = 800

Total employees in C = 900

Q21. Total number of employees whose age is 30 and above in company 'C' is what percent more than total number of employees who age is 40 and above in company 'A'.

- (a) 50%
- (b) 37.5%
- (c) 25%
- (d) 12.5%
- (e) 10%

Q22. Total number of persons in company 'B' whose age is 30 and above but less than 40 is how much more than total number of persons in company 'A' whose age is 40 and above but less than 50.

- (a) 60
- (b) 80
- (c) 100
- (d) 120
- (e) 140

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Q23. Find the ratio between total number of employees in company 'C' whose age is 30 and above but less than 50 to total number of employees in company 'A' whose age is 30 and above but less than 50.

- (a) 9 : 8
- (b) 1 : 2
- (c) 3 : 4
- (d) 4 : 3
- (e) 1 : 4

Q24. Total number of person in company 'B' whose age is 40 and above is what percent of the total number of person in company 'A' whose age is 50 and above.

- (a) 50%
- (b) 0%
- (c) 200%
- (d) 100%
- (e) 150%

Q25. Total number of person in company 'A' whose age is less than 40 is how much more/less than total number of person in company 'B' whose age is less than 50.

- (a) 80
- (b) 160
- (c) 40
- (d) 120
- (e) 200

