A gentleman has 6 friends to invite for a party. In how many ways can he send invitation cards to them if he has three servants to carry the cards? *

- (●) 729
- ( ) 343
- ( ) 216
- ( ) 512

A college schedules lectures of 9 professors. 3 professors every day, till all possible combinations are exhausted. If no combination of professors is ever repeated on any day, then how many days will each of professor have to come? *

- (●) 28
- ( ) 84
- ( ) 252
- ( ) 96

In how many different ways can 8 examination papers be arranged in a row, so that the best and the worst papers may never come together? *

- ( ) 40320
- (●) 30240
- ( ) 10080
- ( ) 40520

A man has six friends, in how many ways can he invite one or more of them to a party? *

- ○ 6!
- ○ 24
- ◉ 63
- ○ 48

Sheela can choose to go for a party with Yogesh, Nikhilesh, Shashank, Amol, Shainu, Vivek, Girish. She has 10 pairs of sandals and 17 different dresses. In how many different ways she will go to the party if she has a choice of taking 5 of her friends. Also she likes 7 pair of sandals and 15 dresses which she wants to wear for the party? *

- ○ 1200
- ○ 10! x 17!
- ○ 2400
- ◉ 2205

There are 150 members in a table-tennis club. They are playing a tournament such that a member is out of the tournament if he loses a game. If we know that there were no ties, then the number of games to determine the champion will be? *

- ○ 74
- ○ 75
- ○ 150
- ◉ 149

How many odd integers from 1000 to 8000 (inclusive) have distinct digits? *

- ○ 392
- ○ 1344
- ◉ 1736
- ○ 56

Three villages A, B and C lie on a highway. There are 10 more routes connecting A and B, 8 more route connecting B and C, 5 more routes connecting A and C. If B is in between A and C, in how many ways can one go from B to C? *

- ○ 24
- ○ 44
- ◉ 64
- ○ 52

There are 6 books on Physics, 3 on Chemistry and 4 on Biology. In how many ways can these be placed on a shelf if the books on the same subject are to be together? *

- ◉ 622080
- ○ 13!
- ○ 6!
- ○ 52

How many sides does a polygon have if the sum of its interior angles is 720°? *

- [ ] 9
- [ ] 5
- [x] 6
- [ ] 8

The difference between the compound interest and the simple interest on a certain sum at 10% p.a. for two years is Rs. 90. What will be the value of the amount at the end of 3 years, assuming SI? *

- [x] Rs. 11700
- [ ] Rs. 11900
- [ ] Rs. 11800
- [ ] Rs. 20000

When 242 is divided by a certain divisor the remainder obtained is 8. When 698 is divided by the same divisor the remainder obtained is 9. However, when the sum of the two numbers 242 and 698 is divided by the divisor, the remainder obtained is 4. What is the value of the divisor? *

- [x] 13
- [ ] 12
- [ ] 15
- [ ] 17

Two trains of lengths 125 m and 175 m cross each other in 12 seconds. If the speed of one of the trains is 40 km/h, what is the speed of the other train in m/sec *

- ○ 10 m/sec
- ○ 13.8 m/sec
- ◉ 50 m/sec
- ○ 30 m/sec

A, B and C each of them are working alone can complete a work in 10, 12 and 15 days respectively. If all the three of them are working together to complete a work and earn Rs. 6000, what will be C's share of the earnings? *

- ○ Rs.1600
- ○ Rs. 1200
- ○ Rs. 1300
- ◉ Rs.1500

The average monthly salary of 10 workers and 2 managers in a company was Rs. 18,000. When one of the managers whose salary was Rs. 24,000, was replaced with a new manager, the average salary of the team went up to Rs. 19,000. What is the salary of the new manager? *

- ○ 38,000
- ○ 39,000
- ○ 36,000
- ○ 40,000

A merchant makes a profit of 20% even after allowing a discount of 20% on the marked price. What should be the marked price if the cost price of the article is Rs.300? *

- ○ Rs.450
- ○ Rs.250
- ○ Rs.380
- ○ Rs.590

If the ratio of the sum of the first 6 terms of a G.P. to the sum of the first 3 terms of the G.P. is 9, what is the common ratio of the G.P? *

- ◉ 2
- ○ 6
- ○ 8
- ○ 9

In what ratio should a 20% methyl alcohol solution be mixed with a 50% methyl alcohol solution so that the resultant solution has 40% methyl alcohol in it? *

- ○ 3:2
- ◉ 1:2
- ○ 5:2
- ○ 8:2

The chance for A to solve a problem is 50%, B to solve a problem is 60% and C to solve a problem is 80%. What is the probability that the problem is solved once all the three try? *

- (●) 0.96
- ( ) 0.568
- ( ) 0.665
- ( ) 0.75

Working together, A and B can do a job in 6 days. B and C can do the same job in 10 days, while C and A can do it in 7.5 days. How long will it take if all A, B and C work together to complete the job? *

- ( ) 6 days
- (●) 5 days
- ( ) 8 days
- ( ) 9 days

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