1.   A room 9.03 m long and 6.88 m broad is to be paved with square tiles of the same lengths which are integral multiples of 1 cm. What is the minimum number of tiles required?
A. 288
B. 252
C. 336
D. 301
E. 344

2.   There are two positive numbers M and N. When M is divided by 195, the remainder is 92. When N is divided by 147, the quotient is the same, but the remainder is 96. Find the remainder when the sum of M and N is divided by 57.
A. 4
B. 17
C. 24
D. 35
E. Cannot be determined

3.   How many numbers between 3000 and 5000 have exactly 3 factors?
A. 3
B. 5
C. 8
D. 16
E. 19

4.   Find the sum of all whole numbers n such that n! ends in exactly 18 zeros?
A. 360
B. 365
C. 375
D. 385
E. 400

5.   Find the smallest number that leaves a remainder of 2 when divided by 5, 4 when divided by 7, and 6 when divided by 9.
A. 249
B. 277
C. 267
D. 252
E. 312

6.   Find the unit's digit of $1^1 + 2^2 + 3^3 + \ldots 9^9$.
A. 1
B. 3
C. 5

D. 7
E. 9

7.   Find the remainder when 1! + 2! + 3! + … + 15! is divided by 30.
A. 0
B. 1
C. 3
D. 8
E. 29

8.   How many factors does the number 300^6 have?
A. 864
B. 988
C. 1014
D. 1029
E. 1183

9.   What is the remainder when the expression $32^3 + 34^3 + 36^3$ is divided by 15.
A. 0
B. 1
C. 3
D. 5
E. 12

10.   Find the sum of all possible values of p such that p^4-p^3 has the unit's digit as 2, where $40 \leq p \leq 50$.
A. 86
B. 93
C. 89
D. 96
E. 87

11.   The sum of two positive numbers is 1968, and their HCF is 123. Find the number of pairs of numbers satisfying the given condition.
A. 16
B. 12
C. 8
D. 6
E. 4

12.   If the number 12A345B is divisible by 9, what is the maximum value of A+B?
A. 9
B. 10
C. 12
D. 15

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E. 18

13. How many numbers greater than 32000 can be formed using the digits 1,2,3,4,5 such that each digit is used exactly once?
A. 48
B. 54
C. 60
D. 66
E. 72

14. Find the number of permutations in arranging the letters of the word 'STATURE' such that vowels are always in odd places.
A. 288
B. 240
C. 192
D. 144
E. 320

15. M is a four-digit integer that lies between 1999 and 4401. If M is formed by using the digits 0, 1, 2, 3, 4, 8, and 9 (repetition of digits is allowed), then the possible number of integers M will be:
A. 820
B. 790
C. 759
D. 901
E. 883

16. Out of 40 students, 2 class representatives have to be chosen. If there are 527 ways in which one or more girls can be chosen, how many boys are there in the class?
A. 17
B. 23
C. 20
D. 21
E. 19

17. In how many ways can 5 women and 3 men stand in a row such that no two men are together?
A. 21600
B. 10800
C. 7200
D. 5400
E. 14400

18. There are 12 electronics shops next to each other in Chandni Chowk. An appraiser decides to make a surprise visit to three of the

shops. In how many ways can he visit such that no two of the shops he visits are next to each other?

A. 120
B. 165
C. 220
D. 252
E. 286

19. In an Olympic event, 2 participants are from Australia, 3 from China, and 4 from Russia. Find the probability that exactly two of the medal winners are from the same country. There are three medals – Gold, Silver, and Bronze.

A. 13/21
B. 55/84
C. 2/3
D. 4/7
E. 25/42

20. A box contains 12 cards numbered consecutively 1 to 12. If we take 5 cards in random without replacement from this box, what is the probability that the median of the numbers selected is 5?

A. 7/44
B. 25/88
C. 5/28
D. 1/6
E. 3/11

21. The probability of success in an event is 40%. What is the probability of at least 1 success in 4 such events? (Rounded off to the nearest integer)

A. 80%
B. 82%
C. 85%
D. 87%
E. 90%

22. A man is known to speak the truth 2 out of 3 times. He throws a die and reports that the number obtained is six. Find the probability that the number obtained is actually a six.

A. 3/8
B. 2/7
C. 2/9
D. 1/4
E. 3/10

23. In how many distinct arrangements of the letters of the word TOMORROW are the three O's such that no two O's are adjacent?

A. 900
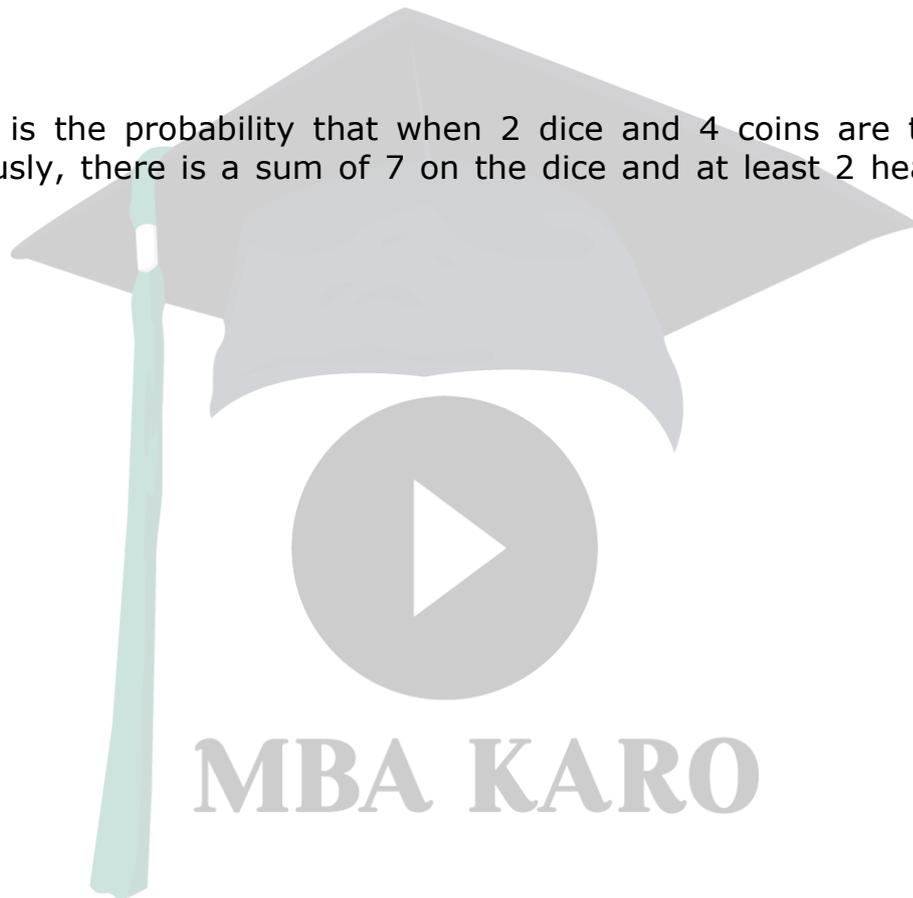B. 1080
C. 1200
D. 1260
E. 1440

24.   In how many ways can the letters of the word AMOUNT be arranged such that vowels are at the two ends?
A. 96
B. 108
C. 120
D. 144
E. 180

25.   What is the probability that when 2 dice and 4 coins are thrown simultaneously, there is a sum of 7 on the dice and at least 2 heads on the coins?
A. 11/96
B. 13/96
C. 5/64
D. 7/64
E. 17/192

Answers:

1. C
2. B
3. A
4. D
5. E
6. D
7. C
8. E
9. C
10. B
11. E
12. C
13. D
14. A
15. E
16. B
17. E
18. A
19. B
20. A
21. D
22. B
23. C
24. D
25. A

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