

NAME: _____

P.I. A.N.8: Determine the number of possible arrangements (permutations) of a list of items

1. How many different arrangements can be made with the letters in the word CRAYON?
[A] 30 [B] 15 [C] 720 [D] 156
2. How many different arrangements can be made with the letters in the word GAME?
[A] 24 [B] 4 [C] 16 [D] 6
3. How many distinct arrangements can be made with the letters in the word ALUMINUM?
[A] 12,520 [B] 5040
[C] 10,080 [D] 208
4. How many different arrangements can be made with the letters in the word IOWA?
[A] 4 [B] 104 [C] 24 [D] 6
5. How many different arrangements can be made with the letters in the word MOVIE?
[A] 100 [B] 120 [C] 130 [D] 20
6. How many distinct arrangements can be made with the letters in the word TALLAHASSEE?
[A] 286 [B] 1,663,200
[C] 831,600 [D] 834,040
7. How many distinct arrangements can be made with the letters in the word SATELLITE?
[A] 22,680 [B] 47,800
[C] 45,360 [D] 234
8. How many distinct arrangements can be made with the letters in the word SURPRISING?
[A] 260 [B] 453,600
[C] 907,200 [D] 451,160
9. How many different arrangements can be made with the letters in the word TOPIC?
[A] 130 [B] 100 [C] 120 [D] 5
10. How many different arrangements can be made with the letters in the word GRAPHICS?
[A] 40,320 [B] 8 [C] 64 [D] 784

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11. How many different arrangements can be made with the letters in the word ZEBRA?
[A] 130 [B] 20 [C] 120 [D] 10
12. How many distinct arrangements can be made with the letters in the word BOOKKEEPER?
[A] 302,400 [B] 148,760
[C] 151,200 [D] 260
13. How many distinct arrangements can be made with the letters in the word COMMITTEE?
[A] 45,360 [B] 22,680
[C] 47,800 [D] 234
14. How many different arrangements can be made with the letters in the word GAME?
[A] 104 [B] 12 [C] 36 [D] 24
15. How many distinct arrangements can be made with the letters in the word MISSISSIPPI?
[A] 69,300 [B] 34,650
[C] 286 [D] 32,210
16. How many different arrangements can be made with the letters in the word IOWA?
[A] 12 [B] 24 [C] 36 [D] 104
17. How many different arrangements can be made with the letters in the word POWER?
[A] 120 [B] 5 [C] 25 [D] 10
18. How many different arrangements can be made with the letters in the word MATH?
[A] 16 [B] 36 [C] 4 [D] 24
19. How many distinct arrangements can be made with the letters in the word CINCINNATI?
[A] 260 [B] 47,960
[C] 50,400 [D] 25,200
20. How many different arrangements can be made with the letters in the word ORANGE?
[A] 720 [B] 15 [C] 30 [D] 36

- [1] C
- [2] A
- [3] C
- [4] C
- [5] B
- [6] C
- [7] C
- [8] B
- [9] C
- [10] A
- [11] C
- [12] C
- [13] A
- [14] D
- [15] B
- [16] B
- [17] A
- [18] D
- [19] C
- [20] A