

*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

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

Integrated Algebra Practice: A.N.8 #2

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- [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