NAME [ ] QUARTER [ ]

GRADE & SECTION [ ] DATE [ ]

Activity: Permutation (Distinguishable&Circular)

I. PERMUTATIONS WITH REPETITION

Find the number of distinguishable permutations of the letters in the word.

1. TREE

Number of letters: [ ]

Repeated letters: [ ] = [ ]

Total number of Permutations: [ ]

2. BELIEVE

Number of letters: [ ]

Repeated letters: [ ] = [ ]

Total number of Permutations: [ ]

3. COMMUNICATE

Number of letters: [ ]

Repeated letters: [ ] = [ ] and [ ] = [ ]

Total number of Permutations: [ ]

II. CIRCULAR PERMUTATIONS

Find the number of permutations of objects in a circle.

1. Suppose you are seating 5 people at a circular table. How many different ways can you arrange the people around the table?

Set-up: $([\ ]-1)!$

Total number of Permutations: [ ]

2. Your mother wants to plant some shrubs around a circular walkway. She has ten different shrubs. How many different ways can the shrubs be planted?

Set-up: $([\ ]-1)!$

Total number of Permutations: [ ]

**How many attempts? ___.
How well did you do?**

😆 Need help!　　😊 Just OK!　　😁 Splendid

I FEEL THAT...

_____
_____

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LIVEWORKSHEETS