

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: $(\quad - 1)!$

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: $(\quad - 1)!$

Total number of Permutations:

How many attempts? ____
How well did you do?



Need help!



Just OK!



Splendid

I FEEL THAT...