

ACTIVITY-1

KNOWING OUR NUMBERS

CREATING A PALINDROME NUMBER

1. **What we have to do?**

To create a 6-digit Palindrome number.

2. **What is required?**

Flash cards of numbers 0 to 9.

3. **How much time required for this activity?**

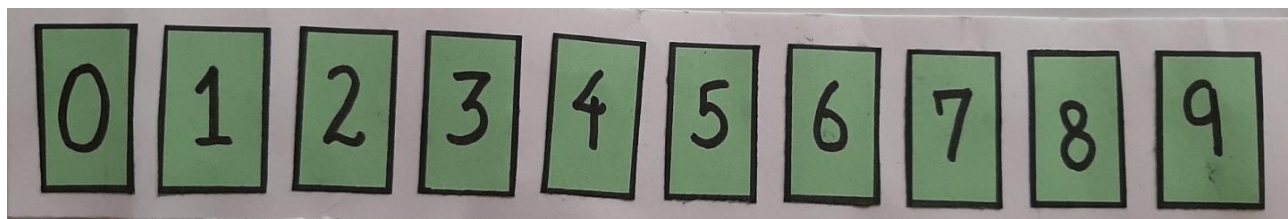
30-40 minutes.

4. **What do you need to know?**

Simple addition, formation of the greatest and the smallest number.

5. **How will you proceed?**

a. Shuffle all the cards (0 to 9) and select 6 cards randomly.



b. Arrange the cards according to your choice to make a 6-digit number.

c. Now, form the greatest 6-digit number from the selected cards.

d. Next form the smallest 6-digit number from the selected cards.

e. Add the greatest and the smallest number.

f. Write the number formed.

g. If the number so formed is not Palindrome number, then repeat steps (d) and (e) until you get a Palindrome number.

6. **What have you observed?**

- Write the greatest 6-digit number obtained.
- Write the smallest 6-digit number obtained.
- Find the sum of the greatest and the smallest 6-digit number.

7. **What have you learnt?**

8. What you have to do as extended activity?

- I am a Palindrome. I am greater than the number of days in a year and less than the product of 19 and 20. What number am I?

9. Real Life Application:

Palindrome Numbers could be used for some compressed algorithms.