

# Factors and Multiples

## FOR TEACHERS

*Content:* Factors and multiples—To find factors of a number, for example 6.

*Materials required:* Dot sheet and colours.

*Learning outcome:*

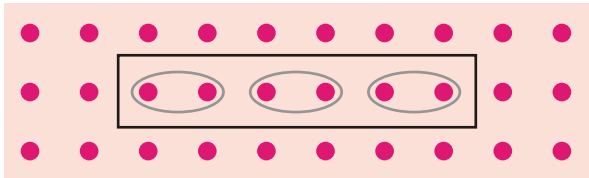
- Numbers by which a given number is perfectly divisible are the factors of the number.
- The given numbers are the multiples of the factors.

## ACTIVITY

A. Do these activities as explained below.

1. Take 6 dots in a dot sheet.

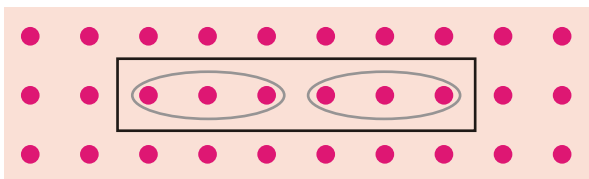
- Circle the dots in 2s. Are there any dots left?



- As there is no dot left:
  - i. 2 is a factor of 6.
  - ii. 6 is a multiple of 2.

2. Take 6 dots in a dot sheet.

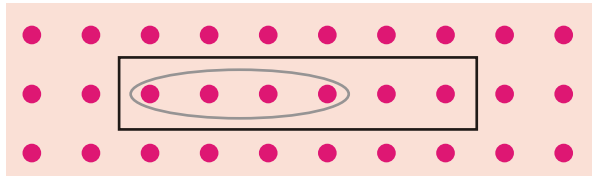
- Circle the dots in 3s. Are there any dots left?



- As there is no dot left:
  - i. 3 is a factor of 6.
  - ii. 6 is a multiple of 2.

3. Take 6 dots in a dot sheet.

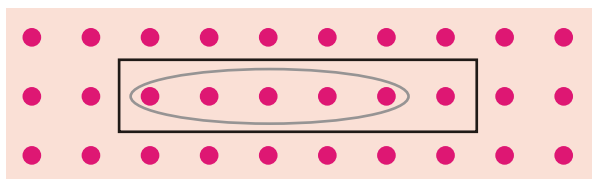
- Circle the dots in 4s. Are there any dots left?



- As there are 2 dots left:
  - i. 4 is not a factor of 6.
  - ii. 6 is not a multiple of 4.

4. Take 6 dots in a dot sheet.

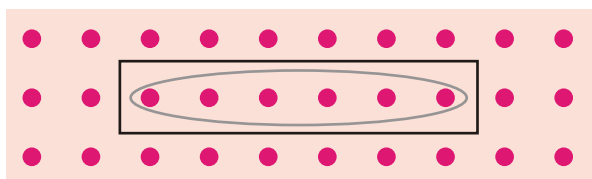
- Circle the dots in 5s. Are there any dots left?



- As there is a dot left:
  - i. 5 is not a factor of 6.
  - ii. 6 is not a multiple of 5.

5. Take 6 dots in a dot sheet.

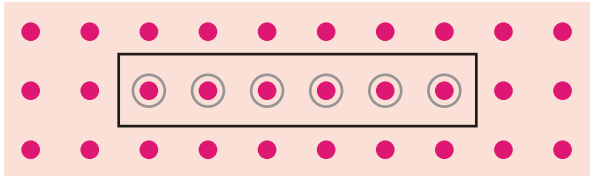
- Circle the dots in 6s. Is there any dot left?



- As there is no dot left:
  - i. 6 is a factor of 6.
  - ii. 6 is a multiple of 6.

6. Take 6 dots in a dot sheet.

- Circle the dots in 1s. Is there any dot left?



- As there is no dot left:
  - i. 1 is a factor of 6.
  - ii. 6 is a multiple of 1.

Thus we can conclude that 1, 2, 3 and 6 are factors of 6. And 6 is a multiple of 1, 2, 3 and 6.

B. Find out factors and multiples of the numbers given below using dot sheets.

1. 5

2. 7

3. 4

4. 8

5. 9

6. 2

7. 10

8. 3

*For teachers:* Ask the children to find out factors and multiples of other numbers in a similar way. Monitor their activities and guide them in case of any confusion.