

# Mathematics

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(Chapter – 1)(Number Systems)

(Class – 9)

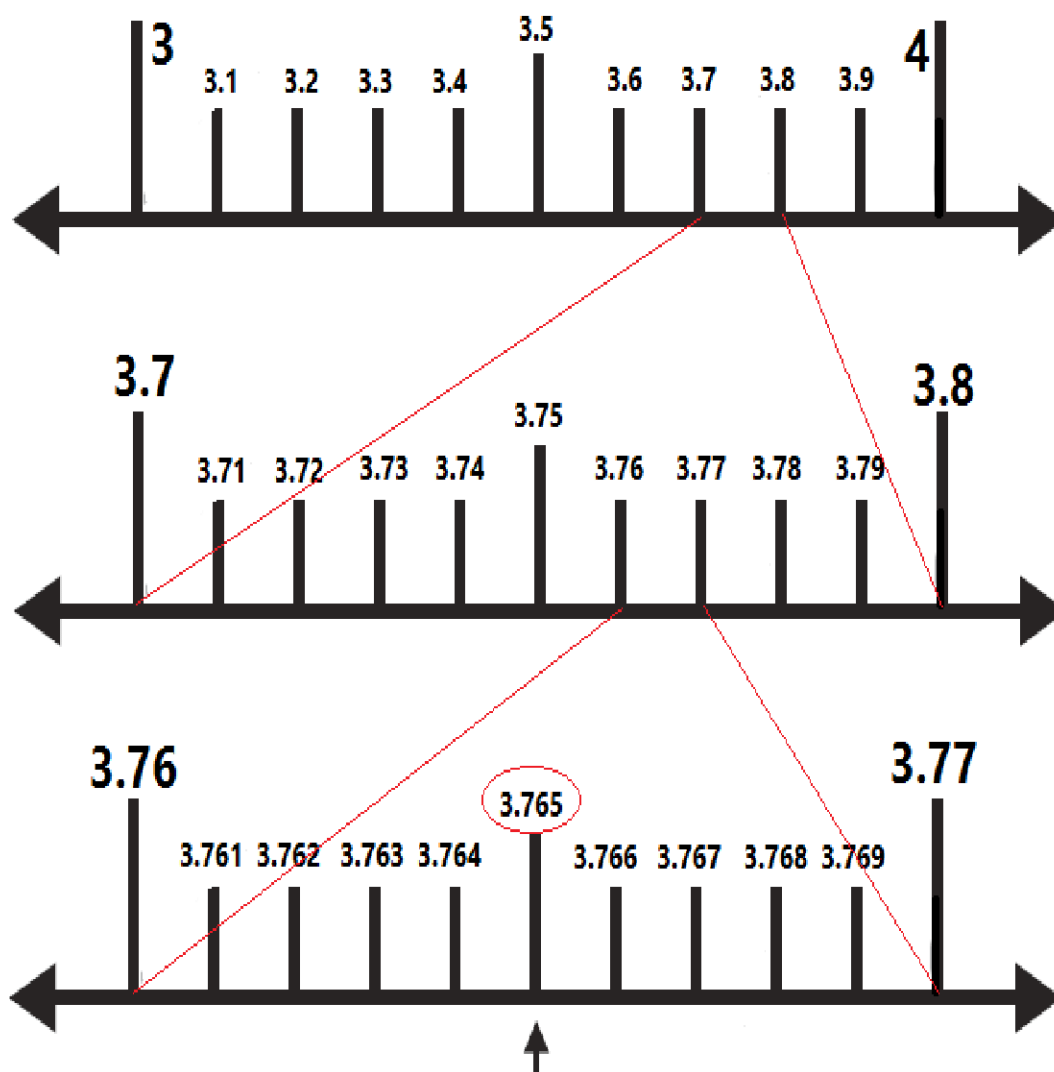
## Exercise 1.4

### Question 1:

Visualise 3.765 on the number line, using successive magnification.

### Answer 1:

- First of all, we observe that 3.765 lies between 3 and 4. Divide this portion into 10 equal parts.
- In the next step, we locate 3.765 between 3.7 and 3.8.
- To get a more accurate visualisation of representation, we divide this portion of number line into 10 equal parts and use a magnifying glass to visualize that 3.765 lies between 3.76 and 3.77.
- Now to visualise 3.765 still more accurately, we divide the portion between 3.76 and 3.77 into 10 equal parts and locate 3.765.



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## Question 2:

Visualise  $4.\overline{26}$  on the number line, up to 4 decimal places.

## Answer 2:

- First of all, we observe that  $4.\overline{26}$  ( $4.2626$ ) lies between 4 and 5. Divide this portion into 10 equal parts.
- In the next step, we locate  $4.2626$  between 4.2 and 4.3.
- To get a more accurate visualisation of representation, we divide this portion of number line into 10 equal parts and use a magnifying glass to visualize that  $4.2626$  lies between 4.262 and 4.263.
- Now to visualise  $4.2626$  still more accurately, we divide the portion between 4.262 and 4.263 into 10 equal parts and locate  $4.2626$ .

