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## NCERT Class 9 Solutions: Number Systems (Chapter 1) Exercise 1.4

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Q. 1 Visualize 3.765 on the number line, using successive magnification

Solution:

- Step 1 - Consider a number line.
- Step 2 - Visualize line between number 3 and 4

- Step 3 - Magnify space between numbers 3 and 4 into 10 equal parts.


## Second Successive Magnification:



- Step 4 - Visualize between number 3.7 and 3.8 minutely using a magnifying glass.
- Step 5 - Magnify and divide space between numbers 3.7 and 3.8 into 10 equal parts.

- Step 6 - Visualize between number 3.76 and 3.77 minutely using a magnifying glass.
- Step 7 - Magnify and divide space between numbers 3.76 and 3.77 into 10 equal parts.


## Fourth Successive Magnification:



- Step 6 - Visualize the number 3.765 using a magnifying glass.
Q. 2 Visualize $4 . \overline{26}$ on the number line, up to 4 decimal places

Solution:
Since we have to go up to 4 decimal places we will consider the number 4.2626 and visualize it on number line

- Step 1 - Consider a number line.
- Step 2 - Take space between number 4 and 5.

- Step 3 - Divide the space between numbers 4 and 5 into 10 equal parts.
- Step 4 - Consider the space between numbers 4.2 and 4.3 using a magnifying glass.


## Second Successive Magnification:



- Step 5 - Divide space between numbers 4.2 and 4.3 into 10 equal parts.
- Step 6 - Consider space between numbers 4.26 and 4.27.

Third Successive Magnification:


- Step 7 - Divide space between numbers 4.26 and 4.27 into 10 equal parts.
- Step 8 - Consider space between numbers 4.262 and 4.263.


## Fourth Successive Magnification:



- Step 9 - Divide space between numbers 4.262 and 4.263 into 10 equal parts.
- Step 10 - Visualize 4.2626 between the numbers 4.262 and 4.263 .

Fifth Successive Magnification:


