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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

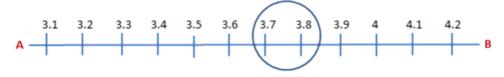
Solution:

- 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.
- $\bullet~$ 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.

- 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.



- 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.
- $\bullet~$ Step 10 Visualize 4.2626 between the numbers 4.262 and 4.263.

Fifth Successive Magnification:

