Number System Ex 1.6 Q1

Answer :

(i)

(ii)

(iii)

(iv)
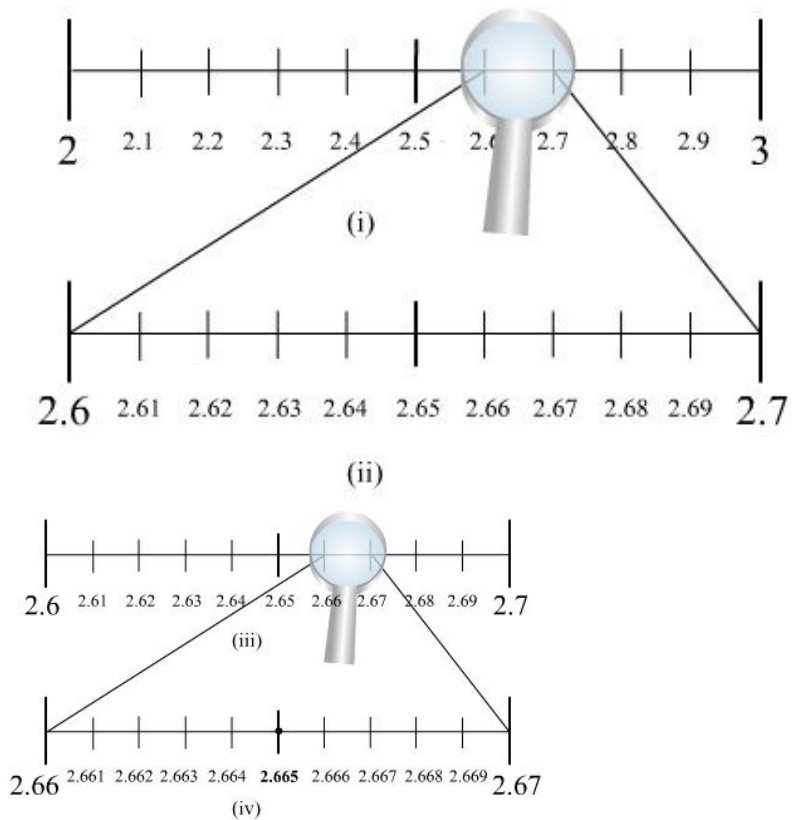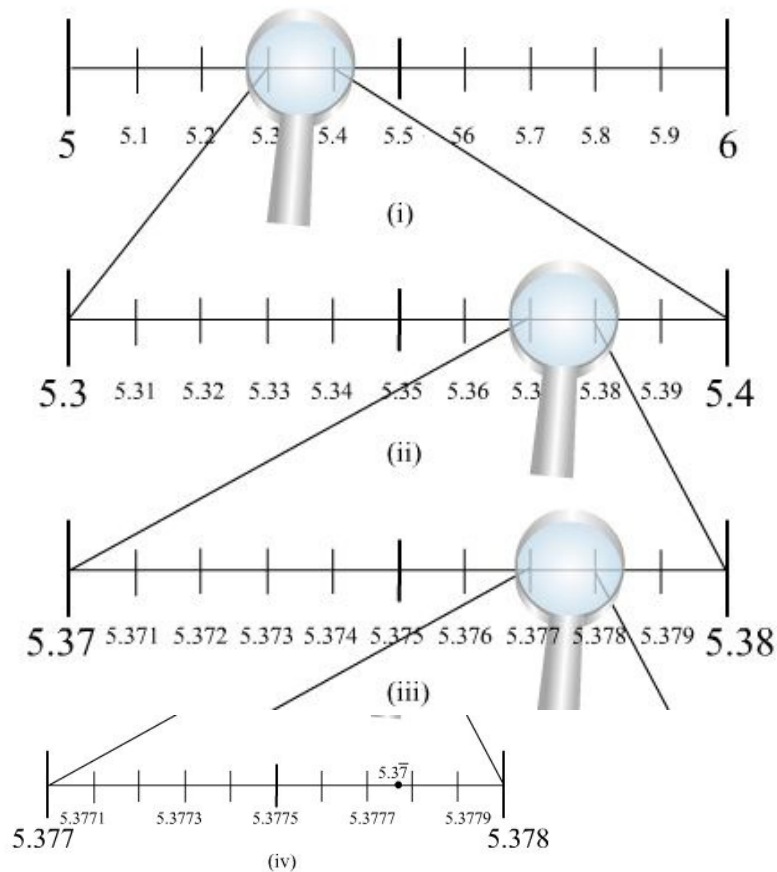
We know that 2.665 lies between 2 and 3. So, we divide the number line into 10 equal parts
and mark each point of division. The first mark on the right of 2 will be 2.1 followed by 2.2 and so on
The point left of 3 will be 2.9. Now, the magnified view of this will show that 2.665 lies between 2.6
and
2.7. So, our focus will be now 2.6 and 2.7. We divide this again into 10 equal parts. The first part will
be
2.61 followed by 2.62 and so on.
We now magnify this again and find that 2.665 lies between 2.66 and 2.67. So, we magnify this
portion
and divide it again into 10 equal parts. The first part will represent 2.661, next will be 2.662 and so
on.
So, 2.665 will be 5th mark in this subdivision as shown in the figure.

Number System Ex 1.6 Q2

Answer :

(i)

(ii)

(iii)

(iv)

We know that $5.3\overline{7}$ will lie between 5 and 6. So, we locate $5.3\overline{7}$ between 5 and 6. We divide this portion of the number line
between 5 and 6 into 10 equal parts and use a magnifying glass to visualize $5.3\overline{7}$.
$5.3\overline{7}$ lies between 5.37 and 5.38. To visualize $5.3\overline{7}$ more accurately we use a magnifying glass to visualize between 5.377 and 5.378.
Again, we divide the portion between 5.377 and 5.378 into 10 equal parts and visualize more closely to represent
$5.3\overline{7}$ as given in the figure. This is located between 5.3778 and 5.3777.

*********** END *********