

STD – 9

MATHS

CHAPTER - 1

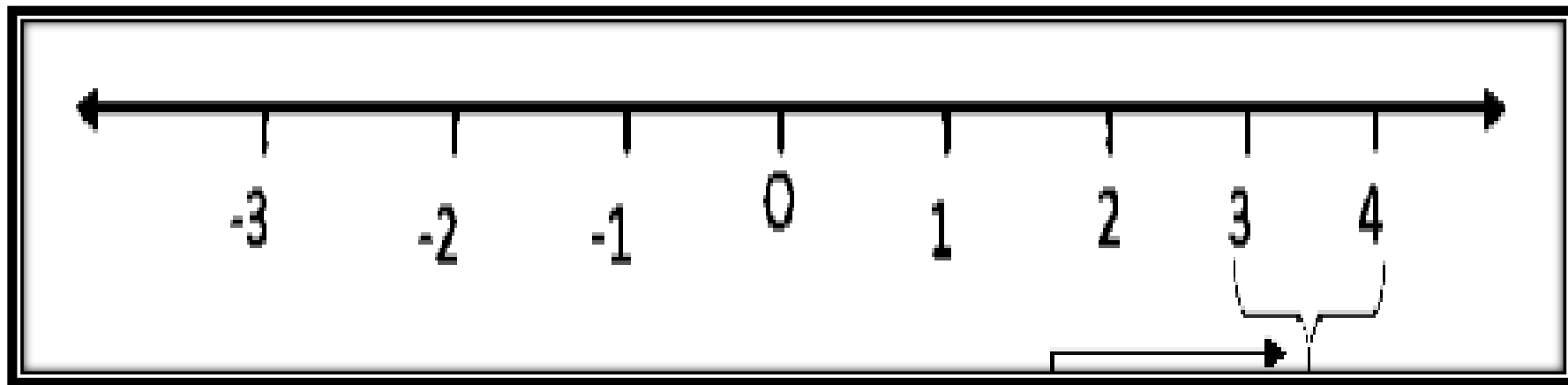
NUMBER SYSTEM

EXERCISE - 1.4

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

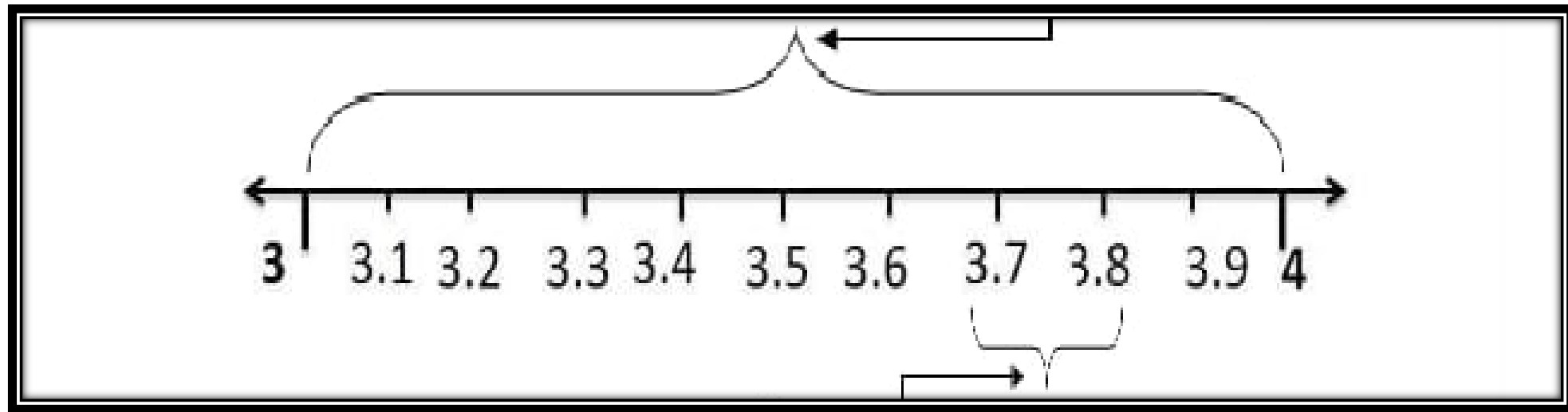
Step one :

➤ **The given number lies between 3 and 4.**



Step two :

- **Magnify the interval between 3 and 4 and divide it into 10 equal parts.**

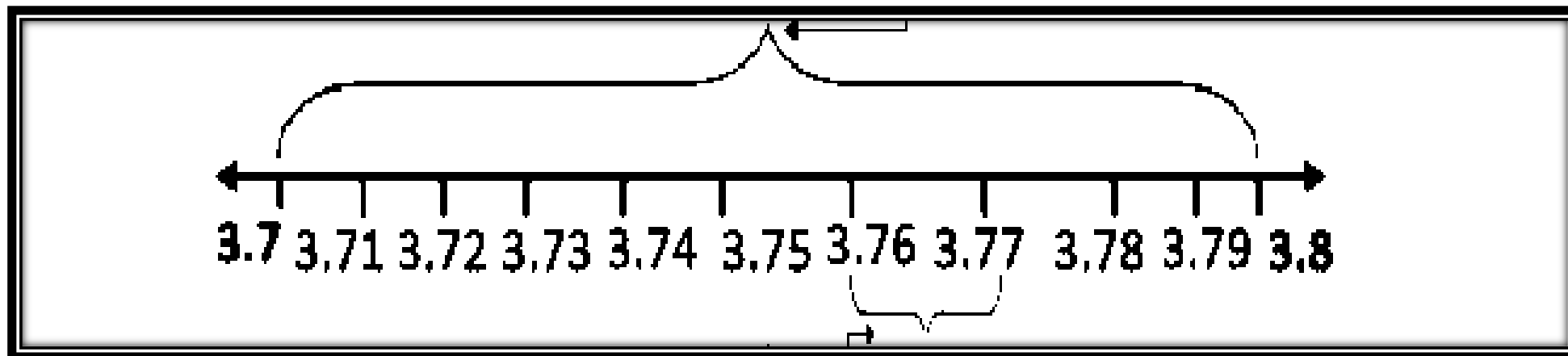


Step three :

- The given number lies between 3.7 and 3.8.

Step four :

- Divide the interval between 3.7 and 3.8 into ten equal parts and magnify it.

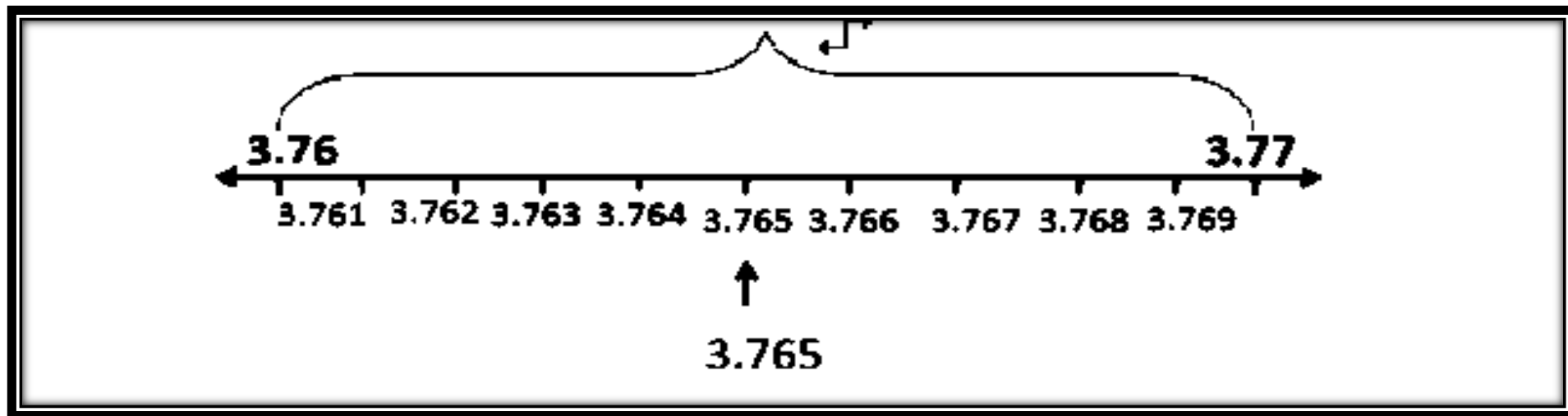


Step five :

- The given number lies between 3.76 and 3.77.

Step six :

- Magnify the interval between 3.76 and 3.77 and divide it into ten equal parts.



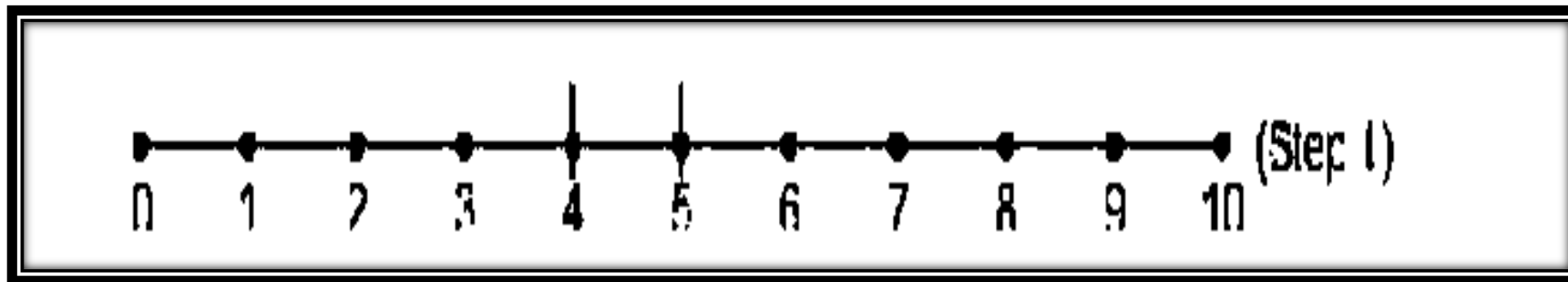
Step seven :

➤ **3.675 is the fifth division in this magnification.**

Q.2. Visualise 4.26 on the number line, up to 4 decimal places.

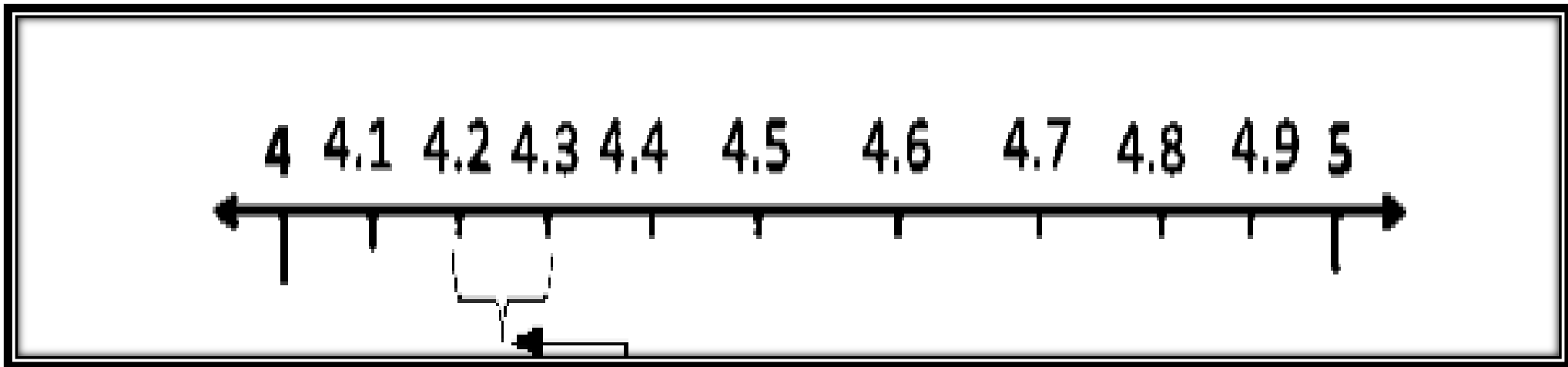
Step one :

- **On the number line the given number 4.26 lies between 4 and 5. (For four decimal places number is 4.2626.)**



Step two :

- **Magnify the interval between 4 and 5 and divide it into 10 equal parts.**

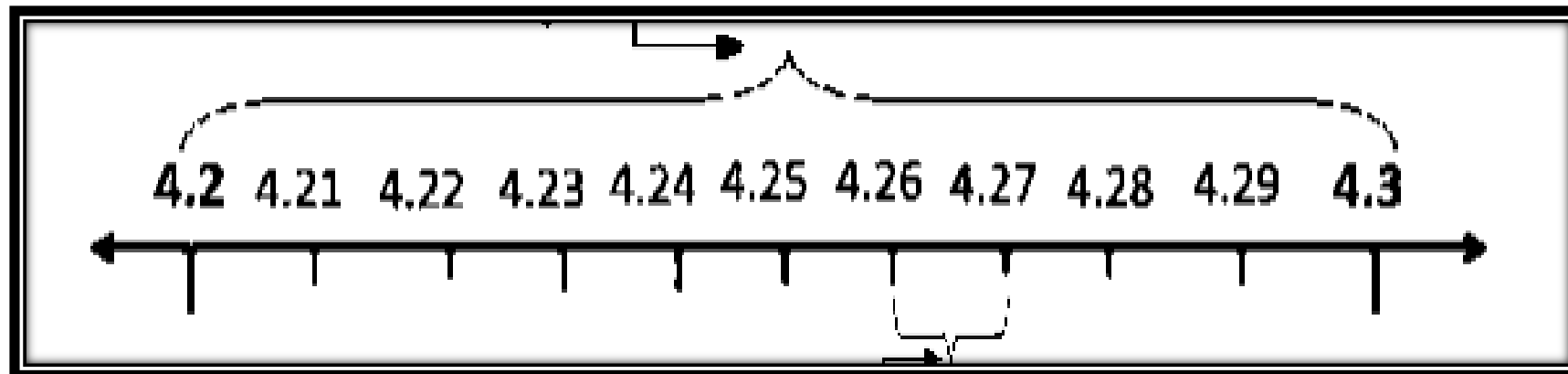


Step three :

- The given number 4.2626 lies between 4.2 and 4.3.

Step four :

- Magnify the interval between 4.2 and 4.3 and divide it into ten equal parts.

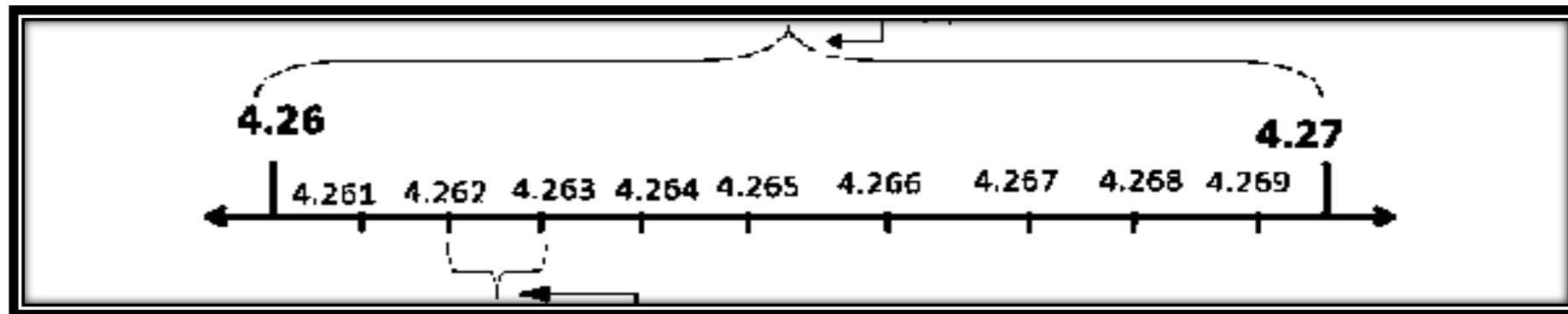


Step five :

- The given number falls between 4.26 and 4.27.

Step six :

- Magnify the interval between 4.26 and 4.27 and divide it into ten equal parts.

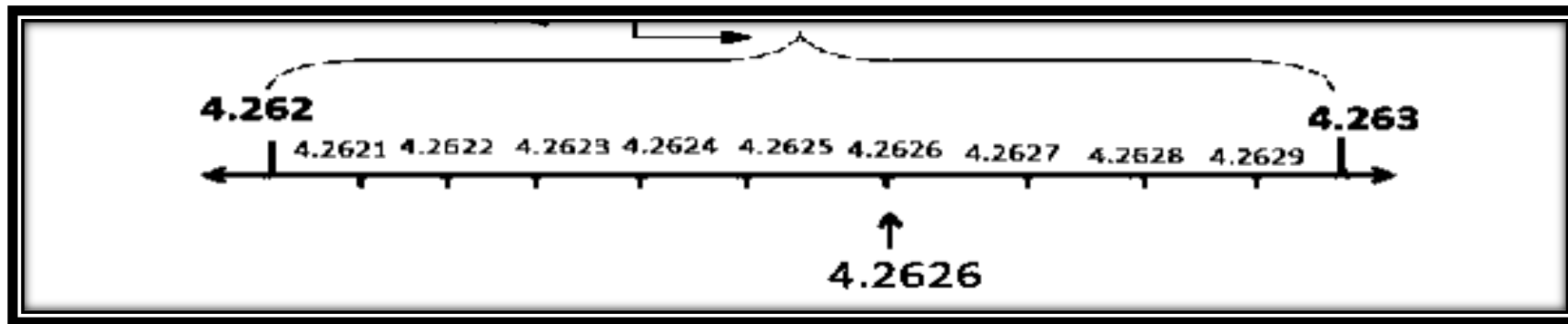


Step seven :

- The given number lies between 4.262 and 4.263.

Step eight :

- Magnify the interval between 4.262 and 4.263 and divide it into ten equal parts.



Step nine :

- **The given number is the sixth division of the given interval.**

Thanks



For watching