

**RD SHARMA**

**Solutions**

**Class 6 Maths**

**Chapter 7**

**Ex 7.2**

**Question 1**

i) Three tenths

$$3/10 = 0.3$$

ii) Two ones and five tenths

$$2 + 5/10 = 2.5$$

iii) Thirty and one tenths

$$30 + 1/10 = 30.1$$

iv) Twenty two and six tenths

$$22 + 6/10 = 22.6$$

v) One hundred , two ones and three tenths

$$100 + 2 + 3/10 = 102.3$$

**Question 2**

i)  $30 + 6 + \frac{2}{10}$

We have 3 tens , 6 ones and 2 tenths. Therefore , the decimal is 36.2

ii)  $700 + 5 + \frac{7}{10}$

We have 7 hundreds, 5 ones and 7 tenths. Therefore the decimal is 705.7

iii)  $100 + 60 + 5 + \frac{1}{10}$

We have 2 hundreds, 6 tens, 5 ones and 1 tenths. Therefore the decimal is 265.1

iv)  $200 + 70 + 9 + \frac{5}{10}$

We have 2 hundreds , 7 tens, 9 ones and 5 tenths. Therefore , the decimal is 279.5

**Question 3**

i)  $\frac{22}{10}$

Since the denominator is ten , the decimal is 2.2

ii)  $\frac{3}{2}$

Making the denominator 10, we have  $\frac{3}{2}$ 

$$3(52)(5) = 1510 = 1.5$$

iii)  $\frac{2}{5}$

Making the denominator 10 , we have  $\frac{2}{5}$ 

$$2(25)(2) = 410 = 0.4$$

**Question 4**

i)  $\frac{4}{0}25$

To write in decimal, we need to make the denominator 10 by multiplying it by a number. But, to maintain the value of the fraction, we should also multiply the numerator by the same number. Thus, we get

$$= 40 + 2(25)(2) = 40 + 410 = 40.4$$

ii)  $\frac{3}{9}210$

$$39210 = 39 + 210$$

Here, the denominator is 10 .

Therefore, the decimal is 39.2

iii)  $\frac{4}{3}5$

$$435 = 4 + 35$$

To write in decimal, we need the denominator by 10 by multiplying it by a number . but, to maintain the value of the fraction , we should also multiply the numerator by the same number. Thus we get ,

$$= 4 + 3(3)(25)(2)$$

$$= 4 + 610 = 4.6$$

iv)  $\frac{2}{5} 12$

$2512=25+12$

To write in decimal, we need to make the denominator 10 by multiplying it by a number. But, to maintain the value of the fraction, we should also multiply the numerator by the same number. Thus, we get

$=25+1(52)(5)$

$=25+510=25.5$

**Question 5**

i) 3.8

$=3+8$  tenths

$=3+810$

$=3(1010)+810 = 3010+810 = 3810 = 195$

ii) 21.2

$=21+2$  tenths

$=21+210 = 21(1010)+210 = 21010+210 = 21210 = 1065$

iii) 6.4

$=6+4$  tenths

$=6+410$

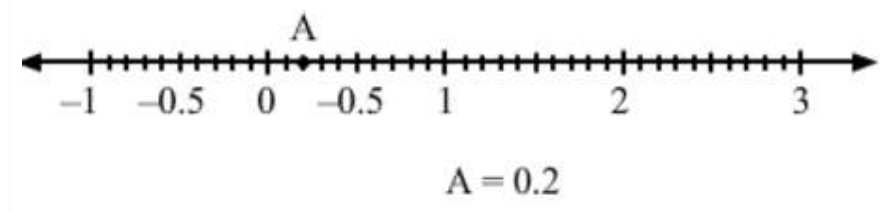
$=6(1010) +410 = 6010+410 = 325$

iv) 1

Since the only number after the decimal is 0, the fraction is 1

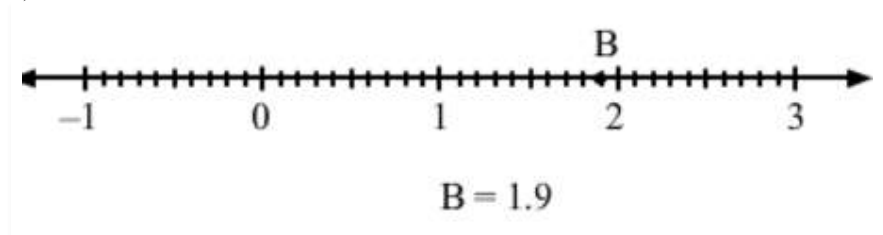
**Question 6**

i)



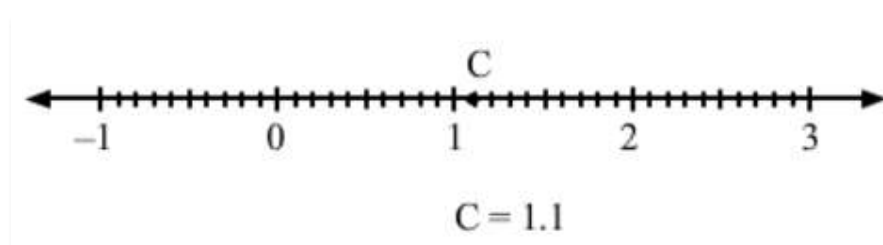
0.2

ii)

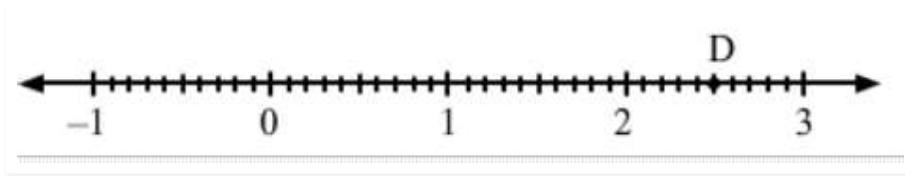


1.9

iii) 1.1



iv) 2.5



**Question 7**

i) 0.8 is between the two whole numbers 0 and 1

As 0.8 is 8 units from 0 and 2 units from 1, it is nearer to 1

ii) 5.1 is between the two whole number 5 and 6.

As 5.1 is 1 unit from 5 and 9 units from 6, it is nearer to 5

iii) 2.6 is between 2 and 3

As 2.6 is 6 units from 2 and 4 units from 3, it is nearer to 3

iv) 6.4 is between 6 and 7

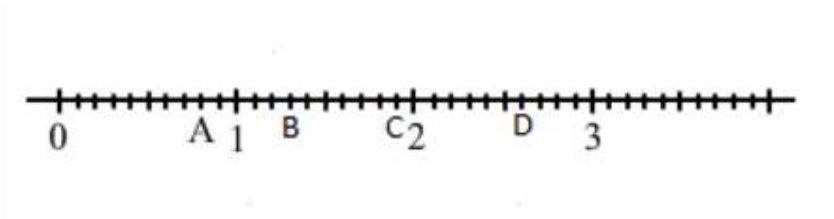
As 6.4 is 4 units from 6 and 6 units from 7, it is nearer to 6

1. 9.0 is itself a whole number, that is 9
2. 4.9 is between 4 and 5

As 4.9 is 9 units from 4 and 1 unit from 5, it is nearer to 5.

**Question 8**

Write the decimal number represented by the points on thye given number line A,B,C,D



A) 0.8, since A is at the eighth place between 0 and 1

B) 1.3, since B is at the third place between 1 and 2

C) 1.9, since C is at the ninth place between 1 and 2

D) 2.6, since D is at the sixth place between 2 and 3

Disclaimer: the image given in the book is not consistent; as the number of periods between 0 and 1 is ten but the number of periods between 1 and 2 are seven. So, ignoring the position of the given numbers 1, 2 and 3. it has been assumed that there are ten periods between every two consecutive numbers starting from the first point taken as zero.