

RD Sharma Solutions for Class 6 Maths Chapter 7 -Decimals

EXERCISE 7.2

Write each of the following as decimals:
 (i) Three tenths
 (ii) Two ones and five tenths
 (iii) Thirty and one tenths
 (iv) Twenty two and six tenths
 (v) One hundred, two ones and three tenths
 Solution:

(i) Three tenths It can be written as 3/10 = 0.3

(ii) Two ones and five tenths It can be written as 2 + 5/10 = 2.5

(iii) Thirty and one tenths It can be written as 30 + 1/10 = 30.1

(iv) Twenty two and six tenths It can be written as 22 + 6/10 = 22.6

(v) One hundred, two ones and three tenths It can be written as 100 + 2 + 3/10 = 102.3

2. Write each of the following as decimals:
(i) 30 + 6 + 2/10
(ii) 700 + 5 + 7/10
(iii) 200 + 60 + 5 + 1/10
(iv) 200 + 70 + 9 + 5/10
Solution:

(i) 30 + 6 + 2/10
In the above question
We know that
3 tens, 6 ones and 2 tenths
Hence, the decimal is 36.2.

(ii) 700 + 5 + 7/10In the above questionWe know that7 hundreds, 5 ones and 7 tenthsHence, the decimal is 705.7.

(iii) 200 + 60 + 5 + 1/10

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In the above question We know that 2 hundreds, 6 tens, 5 ones and 1 tenths. Hence, the decimal is 265.1.

(iv) 200 + 70 + 9 + 5/10
In the above question
We know that
2 hundreds, 7 tens, 9 ones and 5 tenths
Hence, the decimal is 279.5.

3. Write each of the following as decimals:
(i) 22/10
(ii) 3/2
(iii) 2/5
Solution:

(i) 22/10 Here the denominator is ten Hence, the decimal is 2.2

(ii) 3/2Multiplying the fraction by 5 We get $(3/2) \times (5/5) = 15/10 = 1.5$

(iii) 2/5Multiplying the fraction by 2 We get $(2/5) \times (2/2) = 4/10 = 0.4$

4. Write each of the following as decimals:
(i) 40 2/5
(ii) 39 2/10
(iii) 4 3/5
(iv) 25 1/2
Solution:

(i) 40 2/5 In order to write in decimal we should make the denominator 10 So we get $40 + [(2/5) \times (2/2)] = 40 + 4/10 = 40.4$

(ii) 39 2/10 It can be written as 39 + 2/10 = 39 + 0.2 = 39.2

(iii) 4 3/5 In order to write in decimal we should make the denominator 10 So we get

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 $4 + [(3/5) \times (2/2)] = 4 + 6/10 = 4.6$

(iv) 25 1/2 In order to write in decimal we should make the denominator 10 So we get $25+[(1/2) \times (5/5)] = 25 + 5/10 = 25.5$

5. Write the following decimals as fractions. Reduce the fractions to lowest form:

(i) **3.8** (ii) 21.2 (iii) **6.4** (iv) 1.0 Solution: (i) 3.8 It can be written as = 3 + 8 tenths On further calculation = 3 + 8/10We get = 3(10/10) + 8/10By further simplification = 30/10 + 8/10= 38/10So we get = 19/5 (ii) 21.2 It can be written as = 21 + 2 tenths On further calculation = 21 + 2/10We get = 21(10/10) + 2/10By further simplification = 210/10 + 2/10= 212/10So we get = 106/5 (iii) 6.4 It can be written as = 6 + 4 tenths On further calculation = 6 + 4/10We get = 6(10/10) + 4/10By further simplification = 60/10 + 4/10= 64/10

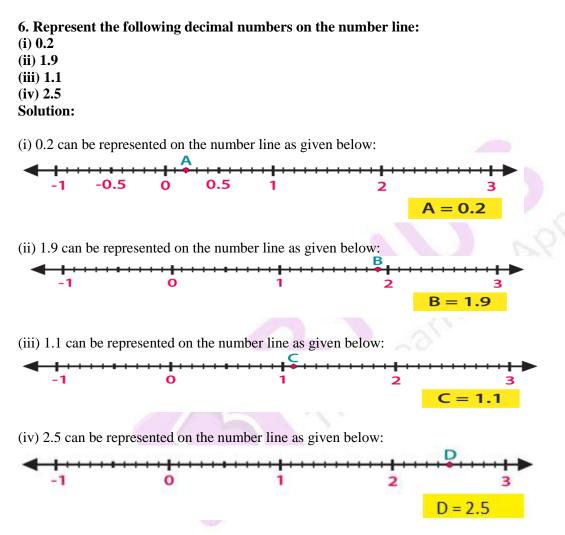
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So we get = 32/5

(iv) 1.0

Here, the number after decimal is zero so the fraction is 1.



7. Between which two whole numbers on the number line are the given numbers? Which one is nearer the number?

(i) 0.8 (ii) 5.1 (iii) 2.6 (iv) 6.4 (v) 9.0 (vi) 4.9 Solution:

(i) We know that 0.8 is 8 units from 0 and 2 units from 1

Hence, it is nearer to 1.

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(ii) We know that5.1 is 1 unit from 5 and 9 units from 6Hence, it is nearer to 5.

(iii) We know that2.6 is 6 units from 2 and 4 units from 3Hence, it is nearer to 3.

(iv) We know that6.4 is 4 units from 6 and 6 units from 7Hence, it is nearer to 6.

(v) We know that 9.0 is a whole number Hence, it is nearer to 9.

(vi) We know that4.9 is 9 units from 4 and 1 unit from 5Hence, it is nearer to 5.

8. Write the decimal number represented by the points on the given number line: A, B, C, D.

4	····	A B		+ + + + + + + + + + + + + + + + + + + +
-1	0	1	2	3

Solution:

A – We know that A is at eighth place between the numbers 0 and 1 Hence, the decimal is 0.8

B – We know that B is at third place between the numbers 1 and 2 Hence, the decimal is 1.3

C – We know that C is at second place between the numbers 2 and 3 Hence, the decimal is 1.9

D – We know that D is at ninth place between the numbers 2 and 3 Hence, the decimal is 2.6