

RD Sharma Solutions for Class 7 Maths Chapter 3 Decimals

EXERCISE 3.1

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Write each of the following as decimals:
 (i) (8/100)
 (ii) 20 + (9/10) + (4/100)
 (iii) 23 + (2/10) + (6/1000)

Solution:

(i) Given (8/100)Mark the decimal point two places from right to left (8/100) = 0.08

(ii) Given 20 + (9/10) + (4/100)

First convert the fractions (9/10) and (4/100) to decimals

Consider (9/10)

Mark the decimal point one place from right to left

(9/10) = 0.9

Now consider (4/100)

Mark the decimal point two places from right to left

(4/100) = 0.04

20 + (9/10) + (4/100) = 20 + 0.9 + 0.04

= 20.94

(iii) Given 23 + (2/10) + (6/1000)First convert the fractions (2/10) and (6/1000) to decimals Consider (2/10) Mark the decimal point one place from right to left (2/10) = 0.2 Now consider (6/1000) Mark the decimal point three places from right to left (6/1000) = 0.006 23 + (2/10) + (6/1000) = 23 + 0.2 + 0.006 = 23.206

2. Convert each of the following fractions as decimals:(i) 0.04(ii) 2.34

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(iii) 0.342 (iv) 17.38

Solution:

(i) Given 0.04 Here we have to convert given decimals into fractions 0.04 can be written as (0.04/1)Now multiply both numerator and denominator by 100 then we get $(0.04/1) = (0.04 \times 100 / 1 \times 100)$ = (4/100)= (1/25)(ii) Given 2.34 Here we have to convert given decimals into fractions 2.34 can be written as (2.34/1)Now multiply both numerator and denominator by 100 then we get $(2.34/1) = (2.34 \times 100 / 1 \times 100)$

= (234/100)

= (117/50)

(iii) Given 0.342 Here we have to convert given decimals into fractions 0.342 can be written as (0.342/1)Now multiply both numerator and denominator by 1000 then we get $(0.342/1) = (0.342 \times 1000 / 1 \times 1000)$ = (342/1000)= (171/500)

(iv) Given 17.38 Here we have to convert given decimals into fractions 17.38 can be written as (17.38/1)Now multiply both numerator and denominator by 100 then we get $(17.38/1) = (17.38 \times 100 / 1 \times 100)$ = (1738/100)= (869/50)

3. Express the following fractions as decimals:

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(i) (23/10) (ii) 25 (1/8) (iii) 39 (7/35) RD Sharma Solutions for Class 7 Maths Chapter 3 Decimals

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(iv) 15 (1/25)
Solution:
(i) Given (23/10)
Divide 23 by 10 we get
(23/10) = 2.3
(ii) Given 25 (1/8)
25(1/8) can be written as
25(1/8) = 25 + (1/8)
Consider (1/8),
Now multiply both numerator and denominator by 125 to get 1000 as denominator
25(1/8) = 25 + (1/8) = 25 + (1 \times 125/8 \times 125)
= 25 + (125/1000)
= 25 + 0.125
= 25.125
(iii) Given 39 (7/35)
First convert given mixed fraction 39 (7/35) into improper fraction
39 (7/35) = 1372/35
By dividing we get
39 (7/35) = 39.2
(iv) Given 15 (1/25)
15 (1/25) can be written as
15(1/25) = 15 + (1/25)
Consider (1/25),
Now multiply both numerator and denominator by 4 to get 100 as denominator
15(1/25) = 15 + (1/25) = 15 + (1 \times 4/25 \times 4)
= 15 + (4/100)
= 15 + 0.04
= 15.04
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4. Add the following:



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(i) 41.8, 39.24, 5.01 and 62.6 (ii) 18.03, 146.3, .829 and 5.324

Solution:

(i) Given 41.8, 39.24, 5.01 and 62.6 41.8 39.2 5.01 + <u>62.6</u> 148.65 (ii) Given 18.03, 146.3, 0.829 and 5.324 18.03 146.3 0.829 + 5.324 170.483 5. Find the value of: (i) 9.756 - 6.28 (ii) 48.1 – 0.37 (iii) 108.032 - 86.8 (iv) 100 - 26.32 Solution: (i) Given 9.756 – 6.28 9.756 - <u>6.28</u> 3.476 (ii) Given 48.1 – 0.37 48.1 - <u>0.37</u> 47.73

(iii) Given 108.032 – 86.8



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- 108.032
- <u>86.8</u> 21.232
- (iv) Given 100 26.32 100.00 - <u>26.32</u> 73.68
- 6. Take out of 3.547 from 7.2

Solution:

Given 3.547 from 7.2 7.2 - <u>3.547</u> 3.653

7. What is to be added to 36.85 to get 59.41?

Solution:

Given 36.85 and 59.41 Let the unknown number be x x + 36.85 = 59.41 x = 59.41 - 36.85 x = 22.56 Hence 22.56 is to be added to 36.85 to get 59.41

8. What is to be subtracted from 17.1 to get 2.051?

Solution:

Let the unknown number be x Given that x is to be subtracted from 17.1 to get 2.051 17.1 - x = 2.05117.1 - 2.051 = xx = 17.1 - 2.051x = 15.049



9. By how much should 34.79 be increased to get 70.15?

Solution:

Let x be the unknown number x + 34.79 = 70.15 x = 70.15 - 34.79 x = 35.36 35.36 should be increased to 34.79 to get 70.15

10. By how much should 59.71 be decreased to get 34.58?

Solution:

Let x be the unknown number 59.71 - x =34.58 59.71 - 34.58 = x x = 59.71 - 34.58 x = 25.13 25.13 should be decreased by 59.71 to get 34.58