

RS Aggarwal Solutions for Class 6 Maths Chapter 7  
Decimals

## Exercise 7A

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1.

**Solutions**

(i) Fifty- eight point six three = 58.63

(ii) One hundred twenty- four point four two five = 124.425

(iii) Seven point seven six = 7.76

(iv) Nineteen point eight = 19.8

(v) Four hundred four point zero four four = 404.044

(vi) Point one seven three = 0.173

(vii) Point zero one five = 0.015

2.

**Solutions**

(i) 14.83

Here, in 14.83

Place value of 1 = 1 tens

= 10

Place value of 4 = 4 ones

= 4

Place value of 8 = 8 tenths

=  $8 / 10$ 

Place value of 3 = 3 hundredths

=  $3 / 100$ 

(ii) 275.269

Here, in 275.269

Place value of 2 = 2 hundreds

= 200

Place value of 7 = 7 tens

= 70

Place value of 5 = 5 ones

= 5

Place value of 2 = 2 tenths

=  $2 / 10$

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Place value of 6 = 6 hundredths

$$= 6 / 100$$

Place value of 9 = 9 thousandths

$$= 9 / 1000$$

(iii) 46.075

Here, in 46.075

Place value of 4 = 4 tens

$$= 40$$

Place value of 6 = 6 ones

$$= 6$$

Place value of 0 = 0 tenths

$$= 0 / 10$$

$$= 0$$

Place value of 7 = 7 hundredths =  $7 / 100$

Place value of 5 = 5 thousandths =  $5 / 1000$

(iv) 302.459

Here, in 302.459

Place value of 3 = 3 hundreds

$$= 300$$

Place value of 0 = 0 tens

$$= 0$$

Place value of 2 = 2 ones

$$= 2$$

Place value of 4 = 4 tenths

$$= 4 / 10$$

Place value of 5 = 5 hundredths

$$= 5 / 100$$

Place value of 9 = 9 thousandths

$$= 9 / 1000$$

(v) 5370.34

Here, in 5370.34

Place value of 5 = 5 thousands

$$= 5000$$

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Place value of 3 = 3 hundreds

= 300

Place value of 7 = 7 tens

= 70

Place value of 0 = 0 ones

= 0

Place value of 3 = 3 tenths

=  $3 / 10$

Place value of 4 = 4 hundredths

=  $4 / 100$

(vi) 186.209

Here, in 186.209

Place value of 1 = 1 hundreds

= 100

Place value of 8 = 8 tens

= 80

Place value of 6 = 6 ones

= 6

Place value of 2 = 2 tenths

=  $2 / 10$

Place value of 0 = 0 hundredths

= 0

Place value of 9 = 9 thousandths

=  $9 / 1000$

3.

**Solutions**

(i) 67.83

= 6 tens + 7 ones + 8 tenths + 3 hundredths

=  $(6 \times 10) + (7 \times 1) + (8 \times 1 / 10) + (3 \times 1 / 100)$

=  $60 + 7 + 8 / 10 + 3 / 100$

$\therefore 67.83 = 60 + 7 + 8 / 10 + 3 / 100$

(ii) 283.61

= 2 hundreds + 8 tens + 3 ones + 6 tenths + 1 hundredths

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$$= (2 \times 100) + (8 \times 10) + (3 \times 1) + (6 \times 1 / 10) + (1 \times 1 / 100)$$

$$= 200 + 80 + 3 + 6 / 10 + 1 / 100$$

$$\therefore 283.61 = 200 + 80 + 3 + 6 / 10 + 1 / 100$$

(iii) 24.675

$$= 2 \text{ tens} + 4 \text{ ones} + 6 \text{ tenths} + 7 \text{ hundredths} + 5 \text{ thousandths}$$

$$= (2 \times 10) + (4 \times 1) + (6 \times 1 / 10) + (7 \times 1 / 100) + (5 \times 1 / 1000)$$

$$= 20 + 4 + 6 / 10 + 7 / 100 + 5 / 1000$$

$$\therefore 24.675 = 20 + 4 + 6 / 10 + 7 / 100 + 5 / 1000$$

(iv) 0.294

$$= 2 \text{ tenths} + 9 \text{ hundredths} + 4 \text{ thousandths}$$

$$= (2 \times 1 / 10) + (9 \times 1 / 100) + (4 \times 1 / 1000)$$

$$= 2 / 10 + 9 / 100 + 4 / 1000$$

$$\therefore 0.294 = 2 / 10 + 9 / 100 + 4 / 1000$$

(v) 8.006

$$= 8 \text{ ones} + 0 \text{ tenths} + 0 \text{ hundredths} + 6 \text{ thousandths}$$

$$= (8 \times 1) + (0 \times 1 / 10) + (0 \times 1 / 100) + (6 \times 1 / 1000)$$

$$= 8 + 0 / 10 + 0 / 100 + 6 / 1000$$

$$= 8 + 6 / 1000$$

$$\therefore 8.006 = 8 + 6 / 1000$$

(vi) 4615.72

$$= 4 \text{ thousands} + 6 \text{ hundreds} + 1 \text{ tens} + 5 \text{ ones} + 7 \text{ tenths} + 2 \text{ hundredths}$$

$$= (4 \times 1000) + (6 \times 100) + (1 \times 10) + (5 \times 1) + (7 \times 1 / 10) + (2 \times 1 / 100)$$

$$= 4000 + 600 + 10 + 5 + 7 / 10 + 2 / 100$$

$$\therefore 4615.72 = 4000 + 600 + 10 + 5 + 7 / 10 + 2 / 100$$

4.

**Solutions**

(i) The decimal form of  $40 + 6 + 7 / 10 + 9 / 100 = 40 + 6 + 0.7 + 0.09$

$$= 46 + 0.7 + 0.09$$

$$= 46.79$$

(ii) The decimal form of  $500 + 70 + 8 + 3 / 10 + 1 / 100 + 6 / 1000$

$$= 500 + 70 + 8 + 0.3 + 0.01 + 0.006$$

$$= 578.316$$

(iii) The decimal form of  $700 + 30 + 1 + 8 / 10 + 4 / 100 = 700 + 30 + 1 + 0.8 + 0.04$

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$$= 731.84$$

(iv) The decimal form of  $600 + 5 + 7 / 100 + 9 / 1000 = 605 + 0.07 + 0.009$

$$= 605.079$$

(v) The decimal form of  $800 + 5 + 8 / 10 + 6 / 1000 = 805 + 0.8 + 0.006$

$$= 805.806$$

(vi) The decimal form  $30 + 9 + 4 / 100 + 8 / 1000 = 39 + 0.04 + 0.008$

$$= 39.048$$

## Exercise 7B

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1.

**Solution**

$$.9 = 9 / 10$$

 $\therefore$  The simplest form of  $.9 = 9 / 10$ 

2.

**Solution**

$$0.6 = 6 / 10$$

$$= 3 / 5$$

 $\therefore$  The simplest form of  $0.6 = 3 / 5$ 

3.

**Solution**

$$.08 = 8 / 100$$

$$= 4 / 50$$

$$= 2 / 25$$

 $\therefore$  The simplest form of  $.08 = 2 / 25$ 

4.

**Solution**

$$0.15 = 15 / 100$$

$$= 3 / 20$$

 $\therefore$  The simplest form of  $0.15 = 3 / 20$ 

5.

**Solution**

$$0.48 = 48 / 100$$

$$= 12 / 25$$

 $\therefore$  The simplest form of  $0.48 = 12 / 25$ 

6.

**Solution**

$$.053 = 53 / 1000$$

 $\therefore$  The simplest form of  $.053 = 53 / 1000$



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7.

**Solution**

$$0.125 = 125 / 1000$$

$$= 25 / 200$$

$$= 5 / 40$$

$$= 1 / 8$$

∴ The simplest form of  $0.125 = 1 / 8$

8.

**Solution**

$$.224 = 224 / 1000$$

$$= 56 / 250$$

$$= 28 / 125$$

∴ The simplest form of  $.224 = 28 / 125$

**Convert each of the following as a mixed fraction:**

9.

**Solution**

Given

$$6.4 = 64 / 10$$

$$= 32 / 5$$

$$= 6 \frac{2}{5}$$

5	32	6
	30	
	2	

∴ Mixed fraction of  $6.4 = 6 \frac{2}{5}$

10.

**Solution**

Given

2	33	16
	32	
	1	

$$16.5 = 165 / 10$$

$$= 33 / 2$$

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$$= 16 \frac{1}{2}$$

∴ Mixed fraction of 16.5 =  $16 \frac{1}{2}$

11.

**Solution**

Given

$$8.36 = 836 / 100$$

$$= 209 / 25$$

25	209	8
	200	
	9	

$$= 8 \frac{9}{25}$$

∴ Mixed fraction of 8.36 =  $8 \frac{9}{25}$

12.

**Solution**

Given

$$4.275$$

$$= 4275 / 1000$$

$$= 171 / 40$$

40	171	4
	160	
	11	

$$= 4 \frac{11}{40}$$

∴ Mixed fraction of 4.275 =  $4 \frac{11}{40}$

13.

**Solution**

Given

$$25.06$$

$$= 2506 / 100$$

$$= 1253 / 50$$

50	1253	25
	1250	
	3	



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$$= 25 \frac{3}{50}$$

$$\therefore \text{Mixed fraction of } 25.06 = 25 \frac{3}{50}$$

14.

**Solution**

Given

7.004

$$= 7004 / 1000$$

$$= 1751 / 250$$

250	1751	7
	1750	
	1	

$$= 7 \frac{1}{250}$$

$$\therefore \text{Mixed fraction of } 7.004 = 7 \frac{1}{250}$$

15.

**Solution**

Given

2.052

$$= 2052 / 1000$$

$$= 513 / 250$$

250	513	2
	500	
	13	

$$= 2 \frac{13}{250}$$

$$\therefore \text{Mixed fraction of } 2.052 = 2 \frac{13}{250}$$

16.

**Solution**

Given

3.108

$$= 3108 / 1000$$

$$= 777 / 250$$

250	777	3
	750	
	27	

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$$= 3 \frac{27}{250}$$

$$\therefore \text{Mixed fraction of } 3.108 = 3 \frac{27}{250}$$

17.

**Solution**

Given

$$23 / 10$$

By Actual division, we get

10	23	2
	20	
	3	

$$= 2 \frac{3}{10}$$

$$= 2 + 0.3$$

$$= 2.3$$

$$\therefore \text{Decimal form of } 23 / 10 = 2.3$$

18.

**Solution**

Given

$$167 / 100$$

By Actual division, we get

100	167	1
	100	
	67	

$$= 1 \frac{67}{100}$$

$$= 1 + 0.67$$

$$= 1.67$$

$$\therefore \text{Decimal form of } 167 / 100 = 1.67$$

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## Exercise 7C

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1.

**Solution**

Converting the given decimals into like decimals, we get

9.6, 14.8, 37.0 and 5.9

Writing these decimals in column form and adding, we get

9.6

14.8

37.0

5.9

---

67.3

---

∴ The sum of the given decimals is 67.3

2.

**Solution**

Converting the given decimals into like decimals, we get

23.70, 106.94, 68.90 and 29.50

Now writing these decimals in column form and adding, we get

23.70

106.94

68.90

29.50

---

229.04

---

∴ The sum of the given decimals is 229.04

3.

**Solution**

Converting the given decimals into like decimals, we get

72.80, 7.68, 16.23 and 0.70

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Decimals

Now writing these decimals in column form and adding, we get

72.80

7.68

16.23

0.70

---

97.41

---

∴ The sum of the given decimals is 97.41

4.

**Solution**

Converting the given decimals into like decimals, we get

18.600, 84.750, 8.345 and 9.700

Now writing these decimals in column form and adding, we get

18.600

84.750

8.345

9.700

---

121.395

---

∴ The sum of the given decimals is 121.395

5.

**Solution**

Converting the given decimals into like decimals, we get

8.236, 16.064, 63.800 and 27.530

Now writing these decimals in column form and adding, we get

8.236

16.064

63.800

27.530

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115.630

---

∴ The sum of the given decimals is 115.63

6.

**Solution**

Converting the given decimals into like decimals, we get

28.900, 19.640, 123.697 and 0.354

Now writing these decimals in column form, we get

28.900

19.640

123.697

0.354

---

172.591

---

∴ The sum of the given decimals is 172.591

7.

**Solution**

Converting these decimals into like decimals, we get

4.370, 9.638, 17.007 and 6.800

Now writing these decimals in column form, we get

4.370

9.638

17.007

6.800

---

37.815

---

∴ The sum of the given decimals is 37.815

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Decimals**Subtract:**

1.

**Solution**

Now writing these decimals in column form with the larger one at the top and subtracting, we get

53.74

– 27.86

---

25.88

---

Hence,  $53.74 - 27.86 = 25.88$ 

2.

**Solution**

Now writing these decimals in column form with the larger one at the top and subtracting, we get

103.87

– 64.98

---

38.89

---

Hence,  $103.87 - 64.98 = 38.89$ 

3.

**Solution**

Converting the given decimals into like decimals, we get

59.63 and 92.40

Now writing these decimals in column form with the larger one at the top and subtracting, we get

92.40

– 59.63

---

32.77

---

Hence,  $92.40 - 59.63 = 32.77$ 

4.

**Solution**

Converting the given decimals into like decimals, we get



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Decimals

56.80 and 204.00

Now writing these decimals in column form with the larger one at the top and subtracting, we get

204.00

– 56.80

---

147.20

---

Hence,  $204.00 - 56.80 = 147.2$

5.

**Solution**

Converting the given decimals into like decimals, we get

127.38 and 216.20

Now writing these decimals in column form with the larger one at the top and subtracting, we get

216.20

– 127.38

---

88.82

---

Hence,  $216.20 - 127.38 = 88.82$

6.

**Solution**

Converting the given decimals into like decimals, we get

39.875 and 70.680

Now writing these decimals in column form with the larger one at the top and subtracting, we get

70.680

– 39.875

---

30.805

---

Hence,  $70.680 - 39.875 = 30.805$

7.

**Solution**

Converting the given decimals into like decimals, we get

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348.237 and 523.120

Now writing these decimals in column form with the larger one at the top and subtracting, we get

523.120

– 348.237

---

174.883

---

Hence,  $523.120 - 348.237 = 174.883$

8.

**Solution**

Converting the given decimals into like decimals, we get

458.573 and 600.000

Now writing these decimals in column form with the larger one at the top and subtracting, we get

600.000

– 458.573

---

141.427

---

Hence,  $600.000 - 458.573 = 141.427$

9.

**Solution**

Now writing these decimals in column form with the larger one at the top and subtracting, we get

206.321

– 149.456

---

56.865

---

Hence,  $206.321 - 149.456 = 56.865$

10.

**Solution**

Converting the given decimals into like decimals, we get

0.612 and 3.400

Now writing these decimals in column form with the larger one at the top and subtracting, we get

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$$\begin{array}{r} 3.400 \\ - 0.612 \\ \hline \end{array}$$

$$\hline 2.788$$

Hence,  $3.400 - 0.612 = 2.788$

11.

**Solution**

Converting the given decimals into like decimals, we get

$$(37.60 + 72.85) - (58.678 + 6.090)$$

Now adding and subtracting as shown below

$$\begin{array}{r} 37.60 \\ + 72.85 \\ \hline \end{array}$$

$$\hline 110.45$$

$$\begin{array}{r} 58.678 \\ + 6.090 \\ \hline \end{array}$$

$$\hline 64.768$$

Now subtract

$$110.45 - 64.768$$

$$\begin{array}{r} 110.450 \\ - 64.768 \\ \hline \end{array}$$

$$\hline 45.682$$

Hence,  $37.6 + 72.85 - 58.678 - 6.09 = 45.682$

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## Exercise 7E

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1.

**Solution**

$$7 / 10 = 7 \text{ tenths}$$

$$= 0.7$$

Hence, option (c) is the correct answer

2.

**Solution**

$$5 / 100 = 5 \text{ hundredths}$$

$$= 0.05$$

Hence, option (d) is the correct answer

3.

**Solution**

$$9 / 1000 = 9 \text{ thousandths}$$

$$= 0.009$$

Hence, option (b) is the correct answer

4.

**Solution**

$$16 / 1000 = 16 \text{ thousandths}$$

$$= 0.016$$

Hence, option (a) is the correct answer

5.

**Solution**

$$134 / 1000 = 134 \text{ thousandths}$$

$$= 0.134$$

Hence, option (c) is the correct answer

6.

**Solution**

$$2 = 2 \text{ (17 hundredths)}$$

$$= 2 + 17 / 100$$

$$= 2 + 0.17$$

$$= 2.17$$

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Hence, option (a) is the correct answer

7.

**Solution**

$$4 = 4 \text{ (3 hundredths)}$$

$$= 4 + 3 / 100$$

$$= 4 + 0.03$$

$$= 4.03$$

Hence, option (b) is the correct answer

8.

**Solution**

$$6.25 = 6 / 25$$

$$= 6 + 0.25$$

$$= 6 + 1 / 4$$

$$= 6 \frac{1}{4}$$

Hence, option (b) is the correct answer

9.

**Solution**

$$6 / 25 = 6.25$$

$$= 0.24$$

25	60	0.24
	50	
	100	
	100	
	0	

Hence, option (b) is the correct answer

10.

**Solution**

$$4 = 4 + 7 / 8$$

$$= 4 + 0.875$$

$$= 4.875$$

Hence, option (c) is the correct answer

11.

**Solution**

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$$24.8 = 24 + 0.8$$

$$= 24 + 8/10$$

$$= 24 + 4/5$$

$$= 24 \frac{4}{5}$$

Hence, option (a) is the correct answer

12.

**Solution**

$$2 = 2 + 1/25$$

$$= 2 + 0.04$$

$$= 2.04$$

Hence, option (b) is the correct answer

13.

**Solution**

$$2 + 3/10 + 4/100 = 2 + 0.3 + 0.04$$

$$= 2.34$$

Hence option (c) is the correct answer

14.

**Solution**

$$2 + 6/100 = 2 + 0.06$$

$$= 2.06$$

Hence, option (b) is the correct answer

15.

**Solution**

$$4/100 + 7/10000 = 0.04 + 0.0007$$

$$= 0.0407$$

Hence, option (c) is the correct answer