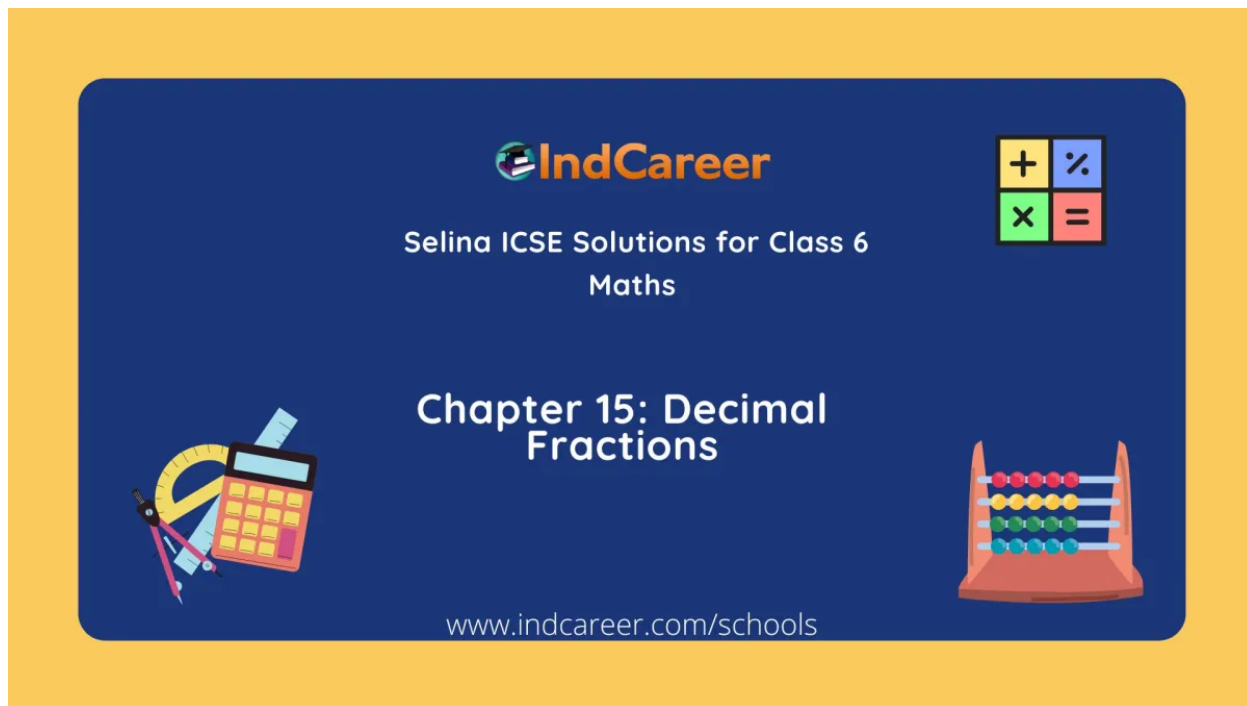


Selina Class 6 ICSE Solutions Mathematics : Chapter 15- Decimal Fractions



For any clarifications or questions you can write to **info@indcareer.com**

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Selina Class 6 ICSE Solutions Mathematics :

Chapter 15- Decimal Fractions

Class 6: Maths Chapter 15 solutions. Complete Class 6 Maths Chapter 15 Notes.

Selina Class 6 ICSE Solutions Mathematics : Chapter 15- Decimal Fractions

Selina 6th Maths Chapter 15, Class 6 Maths Chapter 15 solutions

Exercise 15(A)

1. Write the number of decimal places in each of the following:

(i) 7.03

(ii) 0.509

(iii) 146.2

(iv) 0.0065

(v) 8.03207

Solution:

The number of decimal places in a number is the count of digits in its decimal part.

(i) 7.03

The decimal part of the number 7.03 is .03

7.03 has 2 digits in the decimal part

Therefore, 7.03 has 2 decimal places

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(ii) 0.509

The decimal part of the number 0.509 is .509

0.509 has 3 digits in the decimal part

Therefore, 0.509 has 3 decimal places

(iii) 146.2

The decimal part of the number 146.2 is .2

146.2 has 1 digit in the decimal part

Therefore, 146.2 has 1 decimal place

(iv) 0.0065

The decimal part of the number 0.0065 is .0065

0.0065 has 4 digits in the decimal part

Therefore, 0.0065 has 4 decimal places

(v) 8.03207

The decimal part of the number 8.03207 is .03207

8.03207 has 5 digits in the decimal part

Therefore, 8.03207 has 5 decimal places

2. Convert the given unlike decimal fractions into like decimal fractions:

(i) 1.36, 239.8 and 47.008

(ii) 507.0752, 8.52073 and 0.808

(iii) 459.22, 7.03093 and 0.200037

Solution:

The like decimal fractions are the numbers that have same number of decimal places. The numbers of decimal places are made equal by adding zeros in the end of number.

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(i) 1.36, 239.8 and 47.008

The maximum number of decimal places is in 47.008

It has 3 decimal places

$$1.36 = 1.360$$

$$239.8 = 239.800$$

$$47.008 = 47.008$$

Hence, the like decimal fractions are 1.360, 239.800 and 47.008

(ii) 507.0752, 8.52073 and 0.808

The maximum number of decimal places is in 8.52073

It has 5 decimal places

$$507.0752 = 507.07520$$

$$8.52073 = 8.52073$$

$$0.808 = 0.80800$$

Hence, the like decimal fractions are 507.07520, 8.52073 and 0.80800

(iii) 459.22, 7.03093 and 0.200037

The maximum number of decimal places is in 0.200037

It has 6 decimal places

$$459.22 = 459.220000$$

$$7.03093 = 7.030930$$

$$0.200037 = 0.200037$$

Hence, the like decimal fractions are 459.220000, 7.030930 and 0.200037

3. Change each of following fractions to a decimal fraction:

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(i) $7 / 10$

(ii) $47 / 10$

(iii) $343 / 100$

(iv) $3 / 10^3$

(v) $7295 / 10^5$

Solution:

If a fraction has the numbers like 10, 100, 1000 in its denominator, then to convert into the decimal, the numerator is marked with a decimal point after as many digits from the right as number of zeros in denominator

(i) $7 / 10$

To convert into decimal number

Here, number of zeros is 1

Therefore, decimal form of $7 / 10$ is 0.7

(ii) $47 / 10$

To convert into decimal number

Here, number of zeros is 1

Therefore, decimal form of $47 / 10$ is 4.7

(iii) $343 / 100$

To convert into decimal number

Here, the number of zeros is 2

Therefore, the decimal form of $343 / 100$ is 3.43

(iv) $3 / 10^3$

To convert into decimal number

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$$= 3 / 10 \times 10 \times 10$$

$$= 3 / 1000$$

Here, number of zeros is 3

Therefore, decimal form of $3 / 10^3$ is 0.003

(v) $7295 / 10^5$

To convert into decimal number

$$= 7295 / 10 \times 10 \times 10 \times 10 \times 10$$

$$= 7295 / 100000$$

Here, number of zeros is 5

Therefore, decimal form of $7295 / 10^5$ is 0.07295

4. Convert into a decimal fraction:

(i) $3 / 4$

(ii) $3 / 40$

(iii) $1 / 125$

(iv) $7 / 25$

Solution:

For denominator having no zeros, the denominator and numerator are first multiplied by a factor that makes the number 10 or some power of 10

(i) $3 / 4$

To convert into decimal fraction

Multiply and divide the fraction by 25

$$= (3 \times 25) / (4 \times 25)$$

We get,

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$$= 75 / 100$$

Here, number of zeros is 2

Therefore, the decimal form is 0.75

(ii) $3 / 40$

To convert into decimal fraction

Multiply and divide the fraction by 25

$$= (3 \times 25) / (40 \times 25)$$

We get,

$$= 75 / 1000$$

Here, number of zeros is 3

Therefore, decimal form is 0.075

(iii) $1 / 125$

To convert into decimal fraction

Multiply and divide the fraction by 8

$$= (1 \times 8) / (125 \times 8)$$

We get,

$$= 8 / 1000$$

Here, number of zeros is 3

Therefore, decimal form is 0.008

(iv) $7 / 25$

To convert into decimal fraction

Multiply and divide the fraction by 4

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$$= (7 \times 4) / (25 \times 4)$$

We get,

$$= 28 / 100$$

Here, number of zeros is 2

Therefore, decimal form is 0.28

5. Change the given decimals fractions to fraction s in their lowest terms:

(i) 0.05

(ii) 3.95

(iii) 4.005

(iv) 0.876

(v) 50.06

Solution:

(i) 0.05

To convert 0.05 into fraction

Here, the decimal part of the number has 2 digits in the decimal part

Divide the number by 100 and remove the decimal part

We get,

$$= 5 / 100$$

$$= 1 / 20$$

Therefore, 1 / 20 is the fraction of 0.05

(ii) 3.95

To convert 3.95 into fraction

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Here, the decimal part of the number has 2 digits in the decimal part

Divide the number by 100 and remove the decimal

We get,

$$= 395 / 100$$

$$= 79 / 20$$

=

$$3\frac{19}{20}$$

Therefore,

$$3\frac{19}{20} \text{ is the fraction of } 3.95$$

(iii) 4.005

To convert 4.005 into fraction

Here, the decimal part of the number has 3 digits in the decimal part

Divide the number by 1000 and remove the decimal

We get,

$$= 4005 / 1000$$

$$= 801 / 200$$

=

$$4\frac{1}{200}$$

Therefore,

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$4\frac{1}{200}$ is the fraction of 4.005

(iv) 0.876

To convert 0.876 into fraction

Here, the decimal part of the number has 3 digits in the decimal part

Divide the number by 1000 and remove the decimal

We get,

$$= 876 / 1000$$

$$= 219 / 250$$

Therefore, 219 / 250 is the fraction of 0.876

(v) 50.06

To convert 50.06 into fraction

Here, the decimal part of the number has 2 digits in the decimal part

Divide the number by 100 and remove the decimal

We get,

$$= 5006 / 100$$

$$= 2503 / 50$$

=

$$50\frac{3}{50}$$

Therefore,

$50\frac{3}{50}$ is the fraction of 50.06

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Exercise 15(B)

1. Add the following:

(i) 0.243, 2.47 and 3.009

(ii) 0.0736, 0.6095 and 0.9107

(iii) 1.01, 257 and 0.200

(iv) 18, 200.35, 11.72 and 2.3

(v) 0.586, 0.0586 and 0.00586

Solution:

To add the decimal number, first convert the decimals into like decimal numbers and then add

(i) 0.243, 2.47 and 3.009

To add 0.243, 2.47 and 3.009,

Convert the decimals into like decimals by adding zeros

Like decimals are 0.243, 2.470 and 3.009

0.243

2.470 +

3.009 +

5.722

Hence, the addition of the given decimal numbers is 5.722

(ii) 0.0736, 0.6095 and 0.9107

To add 0.0736, 0.6095 and 0.9107

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Here, all the numbers are like decimal numbers

0.0736

0.6095 +

0.9107 +

1.5938

Hence, the addition of the given numbers is 1.5938

(iii) 1.01, 257 and 0.200

To add 1.01, 257 and 0.200

Convert the decimals into like decimal by adding zeros

Like decimals are 1.010, 257.000 and 0.200

1.010

257.000 +

0.200 +

258.210

Hence, the addition of the given decimal numbers is 258.210

(iv) 18, 200.35, 11.72 and 2.3

To add 18, 200.35, 11.72 and 2.3

Convert the decimals into like decimals by adding zeros

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Like decimals are 18.00, 200.35, 11.72 and 2.30

18.00

200.35 +

11.72 +

2.30 +

232.37

Hence, the addition of the given decimal numbers is 232.37

(v) 0.586, 0.0586 and 0.00586

To add 0.586, 0.0586 and 0.00586

Convert the decimals into like decimals by adding zeros

Like decimals are 0.58600, 0.05860 and 0.00586

0.58600

0.05860 +

0.00586 +

0.65046

Hence, the addition of the given decimal numbers is 0.65046

2. Find the value of:

(i) $6.8 - 2.64$

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(ii) $2 - 1.0304$

(iii) $0.1 - 0.08$

(iv) $0.83 - 0.342$

Solution:

To subtract the decimal numbers, first convert the decimal into like decimal numbers and then subtract

(i) $6.8 - 2.64$

Convert the decimals into like decimal numbers by adding zeros

Like decimals are 6.80 and 2.64

$$6.80 -$$

$$2.64$$

$$4.16$$

Hence, the subtraction of the decimal numbers is 4.16

(ii) $2 - 1.0304$

Convert the decimals into like decimal numbers by adding zeros

Like decimals are 2.0000 and 1.0304

$$2.0000 -$$

$$1.0304$$

$$0.9696$$

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Hence, the subtraction of the decimal numbers is 0.9696

(iii) $0.1 - 0.08$

Convert the decimals into like decimal numbers by adding zeros

Like decimals are 0.10 and 0.08

0.10

0.08 –

0.02

Hence, the subtraction of the decimal numbers is 0.02

(iv) $0.83 - 0.342$

Convert the decimals into like decimal numbers by adding zeros

Like decimals are 0.830 and 0.342

0.830

0.342 –

0.488

Hence, the subtraction of the decimal numbers is 0.488

3. Subtract:

(i) 0.43 from 0.97

(ii) 2.008 from 22.1058

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(iii) 0.18 from 0.6

(iv) 1.002 from 17

(v) 83 from 92.05

Solution:

To subtract the decimal numbers, first convert the decimals into like decimal numbers and then subtract

(i) 0.43 from 0.97

The given decimals are like decimals

0.97

0.43 –

0.54

Hence, the subtraction of the decimal numbers is 0.54

(ii) 2.008 from 22.1058

To subtract 2.008 from 22.1058

Convert the decimals into like decimals by adding zeros

Like decimals are 22.1058 and 2.0080

22.1058

2.0080 –

20.0978

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Hence, the subtraction of the decimal numbers is 20.0978

(iii) 0.18 from 0.6

To subtract 0.18 from 0.6

Convert the decimals into like decimals by adding zeros

Like decimals are 0.60 and 0.18

0.60

0.18 –

0.42

Hence, the subtraction of the decimal numbers is 0.42

(iv) 1.002 from 17

To subtract 1.002 from 17

Convert the decimals into like decimals by adding zeros

Like decimals are 17.000 and 1.002

17.000

1.002 –

15.998

Hence, the subtraction of the decimal numbers is 15.998

(v) 83 from 92.05

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To subtract 83 from 92.05

Convert the decimals into like decimals by adding zeros

Like decimals are 92.05 and 83.00

92.05

83.00 –

9.05

Hence, the subtraction of the decimal numbers is 9.05

4. Simplify:

(i) $3.5 - 2.43 + 0.075$

(ii) $7.84 + 0.3 - 4.016$

(iii) $2.987 - 1.25 - 0.54$

(iv) $52.9 - 231.666 + 204$

(v) $8.57 - 6.4432 - 1.70 + 0.683$

Solution:

To simplify the expression, first convert the decimal numbers into like decimals and perform addition and subtraction

(i) $3.5 - 2.43 + 0.075$

To simplify $3.5 - 2.43 + 0.075$

Convert the decimals into like decimal numbers

Like decimals are 3.500, 2.430 and 0.075

$= 3.500 - 2.430 + 0.075$

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$$= 3.500 + 0.075 - 2.430$$

$$= 3.575 - 2.430$$

$$= 1.145$$

Therefore, the simplification of the given expression is 1.145

(ii) $7.84 + 0.3 - 4.016$

To simplify $7.84 + 0.3 - 4.016$

Convert the decimals into like decimal numbers

Like decimals are 7.840, 0.300 and 4.016

$$= 7.840 + 0.300 - 4.016$$

$$= 8.140 - 4.016$$

$$= 4.124$$

Therefore, the simplification of the given expression is 4.124

(iii) $2.987 - 1.25 - 0.54$

To simplify $2.987 - 1.25 - 0.54$

Convert the decimals into like decimal numbers

Like decimals are 2.987, 1.250 and 0.540

$$= 2.987 - 1.250 - 0.540$$

$$= 1.737 - 0.540$$

$$= 1.197$$

Therefore, the simplification of the given expression is 1.197

(iv) $52.9 - 231.666 + 204$

To simplify $52.9 - 231.666 + 204$

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Convert the decimals into like decimal numbers

Like decimals are 52.900, 231.666 and 204.000

$$= 52.900 - 231.666 + 204.000$$

$$= 256.900 - 231.666$$

$$= 25.234$$

Therefore, the simplification of the given expression is 25.234

$$(v) 8.57 - 6.4432 - 1.70 + 0.683$$

To simplify $8.57 - 6.4432 - 1.70 + 0.683$

Convert the decimals into like decimal numbers

Like decimals are 8.5700, 6.4432, 1.7000 and 0.6830

$$= 8.5700 - 6.4432 - 1.7000 + 0.6830$$

$$= 9.253 - 8.1432$$

$$= 1.1098$$

Therefore, the simplification of the given expression is 1.1098

5. From the sum of 75.75 and 4.9 subtract 28.465

Solution:

To subtract 28.465 from the sum of 75.75 and 4.9

To add 75.75 and 4.9

Convert the numbers into like decimal numbers

Like decimals are 75.75 and 4.90

$$75.75$$

$$4.90 +$$

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80.65

Now, to subtract 28.465 from 80.65

Convert the numbers into like decimal numbers

Like decimals are 28.465 and 80.650

80.650

28.465 –

52.185

Hence, the simplification of the sum and subtraction is 52.185

6. Subtract the sum of 8.14 and 12.9 from 32.7

Solution:

To subtract the sum of 8.14 and 12.9 from 32.7

To add 8.14 and 12.9

Convert the numbers into like decimal numbers

Like decimals are 8.14 and 12.90

8.14

12.90 +

21.04

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To subtract 21.04 from 32.7

Convert the numbers into like decimal numbers

Like decimals are 21.04 and 32.70

32.70

21.04 –

11.66

Therefore, the simplification of the sum and subtraction is 11.66

7. Subtract the sum of 34.27 and 159.8 from the sum of 20.937 and 200.6

Solution:

To subtract the sum of 34.27 and 159.8 from the sum of 20.937 and 200.6

To add 34.27 and 159.8

Convert the numbers into like decimal numbers

Like decimals are 34.27 and 159.80

34.27

159.80 +

194.07

To add 20.937 and 200.6 convert the numbers into like decimal numbers

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Like decimals are 20.937 and 200.600

20.937

200.600 +

221.537

To subtract 194.07 from 221.537

Convert the numbers into like decimal numbers

221.537

194.070 –

27.467

Hence, the subtraction of above decimal numbers is 27.467

8. From the sum of 2.43 and 4.349 subtract the sum of 0.8 and 3.15

Solution:

To subtract the sum of 0.8 and 3.15 from sum of 2.43 and 4.349

To add 0.8 and 3.15

Convert the numbers into like decimal numbers

Like decimals are 0.80 and 3.15

0.80

3.15 +

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3.95

To add 2.43 and 4.349

Convert the numbers into like decimal numbers

2.430

4.349 +

6.779

To subtract 3.95 from 6.779

Convert the numbers into like decimal numbers

6.779

3.950 –

2.829

Therefore, the subtraction of above decimal numbers is 2.829

9. By how much does the sum of 18.0495 and 34.9644 exceed the sum of 7.6752 and 24.876?

Solution:

To obtain the difference between the sum of 18.0495 and 34.9644 and the sum of 7.6752 and 24.876

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Now, to add 18.0495 and 34.9644

Convert the numbers into like decimal numbers

The given decimals are like decimals

18.0495

34.9644 +

53.0139

Now, to add 7.6752 and 24.876

Convert the numbers into like decimal numbers

Like decimals are 7.6752 and 24.8760

7.6752

24.8760 +

32.5512

To subtract 32.5512 from 53.0139

Convert the numbers into like decimal numbers

The given decimals are like decimals

53.0139

32.5512 –

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20.4627

Hence, the sum exceed the other decimal numbers by 20.4627

10. What least number must be added to 89.376 to get 1000?

Solution:

The number to be added to 89.376 to get 1000

Subtract 89.376 from 1000

Convert the decimals into like decimal numbers

Like decimals are 89.376 and 1000.000

1000.000

89.376 –

910.624

Therefore, the number to be added to 89.376 to obtain 1000 is 910.624

Exercise 15(C)

1. Multiply:

(i) 5.6 and 8

(ii) 38.46 and 9

(iii) 0.943 and 62

(iv) 0.0453 and 35

(v) 7.5 and 2.5

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Solution:

(i) 5.6 and 8

The multiplication of 5.6 and 8 is as follows

$$5.6 \times 8 = 44.8$$

Hence, $5.6 \times 8 = 44.8$

(ii) 38.46 and 9

The multiplication of 38.46 and 9 is as follows

$$38.46 \times 9 = 346.14$$

Hence, $38.46 \times 9 = 346.14$

(iii) 0.943 and 62

The multiplication of 0.943 and 62 is as follows

$$943$$

$$62 \times$$

$$1886$$

$$5658 \times$$

$$58466$$

We know that,

$$.943 \times 62 = 58.466$$

Hence $0.943 \times 62 = 58.466$

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(iv) 0.0453 and 35

The multiplication of 0.0453 and 35 is as follows

453

35×

2265

1359×

15855

We know that,

$$453 \times 35 = 15855$$

$$\text{Hence } 0.0453 \times 35 = 1.5855$$

(v) 7.5 and 2.5

The multiplication of 7.5 and 2.5 is as follows

75

25 ×

375

150×

1875

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We know that,

$$75 \times 25 = 1875$$

$$\text{Hence } 7.5 \times 2.5 = 18.75$$

2. Evaluate:

(i) 0.0008×26

(ii) 0.038×95

(iii) $1.2 \times 2.4 \times 3.6$

(iv) $0.9 \times 1.8 \times 0.27$

(v) $1.5 \times 1.5 \times 1.5$

Solution:

(i) 0.0008×26

Since,

$$8 \times 26 = 208$$

$$0.0008 \times 26 = 0.0208$$

$\therefore$ We get 0.0208 on multiplying 0.0008×26

(ii) 0.038×95

$$38$$

$$95 \times$$

$$190$$

$$342 \times$$

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3610

Since,

$$38 \times 95 = 3610$$

$$.038 \times 95 = 3.610$$

$$= 3.61$$

$\therefore$ We get 3.61 on multiplying 0.038×95

(iii) $1.2 \times 2.4 \times 3.6$

12

24 ×

48

24×

288

36 ×

1728

864×

10368

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Since,

$$12 \times 24 \times 36 = 10368$$

$$1.2 \times 2.4 \times 3.6 = 10.368$$

$\therefore$ We get 10.368 on multiplying $1.2 \times 2.4 \times 3.6$

(iv) $0.9 \times 1.8 \times 0.27$

9

$$18 \times$$

72

$$9 \times$$

162

$$27 \times$$

1134

$$324 \times$$

4374

Since,

$$9 \times 18 \times 27 = 4374$$

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$$0.9 \times 1.8 \times 0.27 = 0.4374$$

$\therefore$ We get 0.4374 on multiplying $0.9 \times 1.8 \times 0.27$

(v) $1.5 \times 1.5 \times 1.5$

$$15$$

$$15 \times$$

$$75$$

$$15 \times$$

$$225$$

$$15 \times$$

$$1125$$

$$225 \times$$

$$3375$$

Since,

$$15 \times 15 \times 15 = 3375$$

$$1.5 \times 1.5 \times 1.5 = 3.375$$

3. Multiply each of the following numbers by 10, 100 and 1000:

(i) 3.9

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(ii) 2.89

(iii) 0.0829

(iv) 40.3

(v) 0.3725

Solution:

(i) 3.9

$$3.9 \times 10 = 39$$

$$3.9 \times 100 = 390$$

$$3.9 \times 1000 = 3900$$

Hence, 39, 390 and 3900 are the required numbers

(ii) 2.89

$$2.89 \times 10 = 28.9$$

$$2.89 \times 100 = 289$$

$$2.89 \times 1000 = 2890.00$$

$$= 2890$$

Hence, 28.9, 289 and 2890 are the required numbers

(iii) 0.0829

$$0.0829 \times 10 = 0.829$$

$$0.0829 \times 100 = 8.29$$

$$0.0829 \times 1000 = 82.9$$

Hence, 0.829, 8.29 and 82.9 are the required numbers

(iv) 40.3

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$$40.3 \times 10 = 403$$

$$40.3 \times 100 = 4030$$

$$40.3 \times 1000 = 40300$$

Hence, 403, 4030 and 40300 are the required numbers

(v) 0.3725

$$0.3725 \times 10 = 3.725$$

$$0.3725 \times 100 = 37.25$$

$$0.3725 \times 1000 = 372.5$$

4. Evaluate:

(i) $8.64 \div 8$

(ii) $0.0072 \div 6$

(iii) $20.64 \div 16$

(iv) $1.602 \div 15$

(v) $13.08 \div 4$

Solution:

(i) $8.64 \div 8$

$$8.64 \div 8 = 8.64 / 8$$

We get

$$= 1.08$$

Therefore, the value of $8.64 \div 8 = 1.08$

(ii) $0.0072 \div 6$

$$0.0072 \div 6 = (0.0072) / 6$$

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We get

$$= 0.0012$$

Therefore, the value of $0.0072 \div 6 = 0.0012$

(iii) $20.64 \div 16$

$$20.64 \div 16 = (20.64) / 16$$

We get

$$= 1.29$$

Therefore, the value of $20.64 \div 16 = 1.29$

(iv) $1.602 \div 15$

$$1.602 \div 15 = (1.602) / 15$$

We get

$$1602 / (1000 \times 15)$$

We get

$$= 106.8 / 1000$$

$$= 0.1068$$

Therefore, the value of $1.602 \div 15 = 0.1068$

(v) $13.08 \div 4$

$$13.08 \div 4 = 13.08 / 4$$

We get

$$= 3.27$$

Therefore, the value of $13.08 \div 4 = 3.27$

5. Divide each of the following numbers by 10, 100 and 1000:

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(i) 49.79

(ii) 0.923

(iii) 0.0704

Solution:

(i) 49.79

$$49.79 / 10 = 4.979$$

$$49.79 / 100 = 0.4979$$

$$49.79 / 1000 = 0.04979$$

Therefore, the required numbers are 4.979, 0.4979 and 0.04979

(ii) 0.923

$$0.923 / 10 = 0.0923$$

$$0.923 / 100 = 0.00923$$

$$0.923 / 1000 = 0.000923$$

Therefore, the required numbers are 0.0923, 0.00923 and 0.000923

(iii) 0.0704

$$0.0704 / 10 = 0.00704$$

$$0.0704 / 100 = 0.000704$$

$$0.0704 / 1000 = 0.0000704$$

Therefore, the required numbers are 0.00704, 0.000704 and 0.0000704

6. Evaluate:

(i) $9.4 \div 0.47$

(ii) $6.3 \div 0.09$

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(iii) $2.88 \div 1.2$

(iv) $8.64 \div 1.6$

(v) $37.188 \div 3.6$

Solutions:

(i) $9.4 \div 0.47$

$$= 9.4 / 0.47$$

$$= (94 \times 100) / (47 \times 10)$$

On calculating further, we get

$$= 2 \times 10$$

$$= 20$$

Hence, $9.4 \div 0.47 = 20$

(ii) $6.3 \div 0.09$

$$= 6.3 / 0.09$$

$$= (63 \times 100) / (9 \times 10)$$

We get

$$= 6300 / 90$$

$$= 630 / 9$$

$$= 70$$

Hence, $6.3 \div 0.09 = 70$

(iii) $2.88 \div 1.2$

$$= 2.88 / 1.2$$

$$= (288 \times 10) / (12 \times 100)$$

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We get,

$$= 2880 / 1200$$

$$= 288 / 120$$

$$= 2.4$$

Hence, $2.88 \div 1.2 = 2.4$

(iv) $8.64 \div 1.6$

$$= 8.64 / 1.6$$

$$= (8.64 \times 10) / (1.6 \times 10)$$

We get,

$$= 86.4 / 16$$

$$= 5.4$$

Hence, $8.64 \div 1.6 = 5.4$

(v) $37.188 \div 3.6$

$$= 37.188 / 3.6$$

$$= (37188 \times 10) / (36 \times 1000)$$

We get,

$$= 371880 / 36000$$

$$= 2066 / 200$$

$$= 1033 / 100$$

$$= 10.33$$

7. Fill in the blanks with 10, 100, 1000, or 10000 etc:

(i) $7.85 \times \dots = 78.5$

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(ii) $0.442 \times \dots\dots\dots = 442$

(iii) $0.0924 \times \dots\dots\dots = 9.24$

(iv) $0.00187 \times \dots\dots\dots = 18.7$

(v) $2.6 \times \dots\dots\dots = 2600$

Solution:

(i) $7.85 \times 10 = 78.5$

(ii) $0.442 \times 1000 = 442$

(iii) $0.0924 \times 100 = 9.24$

(iv) $0.00187 \times 10000 = 18.7$

(v) $2.6 \times 1000 = 2600$

8. Evaluate:

(i) $9.32 - 28.54 \div 10$

(ii) $0.234 \times 10 + 62.8$

(iii) $3.06 \times 100 - 889.4 \div 100$

(iv) $2.86 \times 7.5 + 45.4 \div 0.2$

(v) $97.82 \times 0.03 - 0.54 \div 0.3$

Solution:

(i) $9.32 - 28.54 \div 10$

$= 9.32 - 2.854$

So, we get

$= 9.320 - 2.854$

$= 6.466$

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Therefore, $9.32 - 28.54 \div 10 = 6.466$

(ii) $0.234 \times 10 + 62.8$

Using BODMAS, we get

$$= 2.34 + 62.80$$

$$= 65.14$$

Therefore, $0.234 \times 10 + 62.8 = 65.14$

(iii) $3.06 \times 100 - 889.4 \div 100$

Using BODMAS, we get

$$= 3.06 \times 100 - 8.894$$

$$= 306 - 8.894$$

$$= 306.000 - 8.894$$

$$= 297.106$$

(iv) $2.86 \times 7.5 + 45.4 \div 0.2$

Using BODMAS, we get

$$= 2.86 \times 7.5 + 45.4 \div 2$$

On further calculation, we get

$$= 2.86 \times 7.5 + 227.00$$

$$= (286 / 100) \times (75 / 10) + 227.00$$

$$= (286 / 4) \times (3 / 10) + 227.00$$

$$= (143 / 2) \times (3 / 10) + 227.00$$

We get,

$$= 429 / 20 + 227.00$$

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$$= 21.45 + 227.00$$

$$= 248.45$$

$$(v) 97.82 \times 0.03 - 0.54 \div 0.3$$

$$= 97.82 \times 0.03 - 0.54 / 0.3$$

$$= 97.82 \times 0.03 - (0.54 \times 10) / (0.3 \times 10)$$

On further calculation, we get

$$= 2.9346 - 5.4 / 3$$

$$= 2.9346 - 1.8$$

$$= 2.9346 - 1.8000$$

We get,

$$= 1.1346$$

Exercise 15(D)

1. Express in paise:

(i) Rs 8.40

(ii) Rs 0.97

(iii) Rs 0.09

(iv) Rs 62.35

Solution:

(i) Rs 8.40

$$= 8.40 \times 100 \text{ paise [WKT 1Rs = 100 Paise]}$$

$$= (840 / 100) \times 100 \text{ Paise}$$

On substituting, we get

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= 840 Paise

Therefore, Rs 8.40 = 840 paise

(ii) Rs 0.97

= 0.97×100 paise [WKT 1 Rs = 100 Paise]

On calculating, we get

= 97 paise

Therefore, Rs 0.97 = 97 paise

(iii) Rs 0.09

= 0.09×100 [WKT 1 Rs = 100 Paise]

We get,

= 9.00 paise

Therefore, Rs 0.09 = 9.00 paise

(iv) Rs 62.35

= 62.35×100 paise [WKT 1 Rs = 100 Paise]

= $(6235 / 100) \times 100$ paise

We get

= 6235 paise

Therefore, Rs 62.35 = 6235 paise

2. Express in rupees:

(i) 55 P

(ii) 8 P

(iii) 695 P

<https://www.indcareer.com/schools/selina-class-6-icse-solutions-mathematics-chapter-15-decimal-fractions/>

(iv) 3279 P

Solution:

(i) 55 P

We know that,

$$1 \text{ P} = 1 / 100 \text{ Rs}$$

$$= 55 / 100$$

We get,

$$= \text{Rs } 0.55$$

Hence, the expression for 55 P in the form of rupees is Rs 0.55

(ii) 8 P

We know that,

$$1 \text{ P} = 1 / 100 \text{ Rs}$$

$$= 8 / 100$$

We get,

$$= \text{Rs } 0.08$$

Hence, the expression for 8 P in the form of rupees is Rs 0.08

(iii) 695 P

We know that,

$$1 \text{ P} = 1 / 100 \text{ Rs}$$

$$= 695 / 100$$

We get,

$$= \text{Rs } 6.95$$

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Hence, the expression for 695 P in the form of rupees is Rs 6.95

(iv) 3279 P

We know that,

$$1 \text{ P} = 1 / 100 \text{ Rs}$$

$$= 3279 / 100$$

We get,

$$= \text{Rs } 32.79$$

Hence, the expression for 3279 P in the form of rupees is Rs 32.79

3. Express in centimetre (cm):

(i) 6 m

(ii) 8.54 m

(iii) 3.08 m

(iv) 0.87 m

(v) 0.03 m

Solution:

(i) 6 m

We know that $1 \text{ m} = 100 \text{ cm}$

$$= 6 \times 100$$

We get,

$$= 600 \text{ cm}$$

Hence, $6 \text{ m} = 600 \text{ cm}$

(ii) 8.54 m

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We know that,

$$1 \text{ m} = 100 \text{ cm}$$

$$= 8.54 \times 100$$

We get,

$$= 854 \text{ cm}$$

Hence, $8.54 \text{ m} = 854 \text{ cm}$

(iii) 3.08

We know that,

$$1 \text{ m} = 100 \text{ cm}$$

$$= 3.08 \times 100$$

We get,

$$= 308 \text{ cm}$$

Hence, $3.08 \text{ m} = 308 \text{ cm}$

(iv) 0.87 m

We know that,

$$1 \text{ m} = 100 \text{ cm}$$

$$= 0.87 \times 100$$

We get,

$$= 87 \text{ cm}$$

Hence, $0.87 \text{ m} = 87 \text{ cm}$

(v) 0.03 m

We know that,

<https://www.indcareer.com/schools/selina-class-6-icse-solutions-mathematics-chapter-15-decimal-fractions/>

$$1 \text{ m} = 100 \text{ cm}$$

$$= 0.03 \times 100$$

We get,

$$= 3 \text{ cm}$$

Hence, $0.03 \text{ m} = 3 \text{ cm}$

4. Express in metre (m):

(i) 250 cm

(ii) 2328 cm

(iii) 86 cm

(iv) 4 cm

(v) 107 cm

Solution:

(i) 250 cm

We know that,

$$1 \text{ cm} = 1 / 100 \text{ m}$$

$$= 250 / 100$$

$$= 2.5 \text{ m}$$

Therefore, $250 \text{ cm} = 2.5 \text{ m}$

(ii) 2328 m

We know that,

$$1 \text{ cm} = 1 / 100 \text{ m}$$

$$= 2328 / 100$$

<https://www.indcareer.com/schools/selina-class-6-icse-solutions-mathematics-chapter-15-decimal-fractions/>

$$= 23.28 \text{ m}$$

Therefore, 2328 cm = 23.28 m

(iii) 86 cm

We know that,

$$1 \text{ cm} = 1 / 100 \text{ m}$$

$$= 86 / 100$$

$$= 0.86 \text{ m}$$

Therefore, 86 cm = 0.86 m

(iv) 4 cm

We know that,

$$1 \text{ cm} = 1 / 100 \text{ m}$$

$$= 4 / 100$$

$$= 0.04 \text{ m}$$

Therefore, 4 cm = 0.04 m

(v) 107 cm

We know that,

$$1 \text{ cm} = 1 / 100 \text{ m}$$

$$= 107 / 100$$

$$= 1.07 \text{ m}$$

5. Express in gramme (gm):

(i) 6 kg

(ii) 5.543 kg

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(iii) 0.078 kg

(iv) 3.62 kg

(v) 4.5 kg

Solution:

(i) 6 kg

We know that,

$$1 \text{ kg} = 1000 \text{ g}$$

$$= 6 \times 1000$$

$$= 6000 \text{ gm}$$

Therefore, 6 kg = 6000 gm

(ii) 5.543 kg

We know that,

$$1 \text{ kg} = 1000 \text{ g}$$

$$= 5.543 \times 1000$$

$$= 5543 \text{ gm}$$

Therefore, 5.543 kg = 5543 gm

(iii) 0.078 kg

We know that,

$$1 \text{ kg} = 1000 \text{ g}$$

$$= 0.078 \times 1000$$

$$= 78 \text{ gm}$$

Therefore, 0.078 kg = 78 gm

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(iv) 3.62 kg

We know that,

$$1 \text{ kg} = 1000 \text{ g}$$

$$= 3.62 \times 1000$$

$$= 3620 \text{ gm}$$

Therefore, 3.62 kg = 3620 gm

(v) 4.5 kg

We know that,

$$1 \text{ kg} = 1000 \text{ g}$$

$$= 4.5 \times 1000$$

$$= 4500 \text{ gm}$$

Therefore, 4.5 kg = 4500 gm

6. Express in kilogramme (kg):

(i) 7000 gm

(ii) 6839 gm

(iii) 445 gm

(iv) 8 gm

(v) 93 gm

Solution:

(i) 7000 gm

$$= 7000 / 1000$$

We get,

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$$= 7 \text{ kg}$$

Hence, 7000 gm = 7 kg

(ii) 6839 gm

$$= 6839 / 1000$$

We get,

$$= 6.839 \text{ kg}$$

Hence, 6839 gm = 6.839 kg

(iii) 445 gm

$$= 445 / 1000$$

We get,

$$= 0.445 \text{ kg}$$

Hence, 445 gm = 0.445 kg

(iv) 8 gm

$$= 8 / 1000$$

We get,

$$= 0.008 \text{ kg}$$

Hence, 8 gm = 0.008 kg

(v) 93 gm

$$= 93 / 1000$$

We get,

$$= 0.093 \text{ kg}$$

Hence, 93 gm = 0.093 kg

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7. Add (giving answer in rupees):

(i) Rs 5.37 and Rs 12

(ii) Rs 24.03 and 532 paise

(iii) 73 paise and Rs 2.08

(iv) 8 paise and Rs 15.36

Solution:

(i) Rs 5.37 and Rs 12

5.37

12.00 +

Rs 17.37

$\therefore \text{Rs } 5.37 + \text{Rs } 12 = \text{Rs } 17.37$

(ii) Rs 24.03 and 532 paise

$= \text{Rs } 24.03 + 532 / 100$

(Since, 1 Rs = 100 paise)

$= \text{Rs } (24.03 + 5.32)$

$= \text{Rs } 29.35$

$\therefore \text{Rs } 24.03 + 532 \text{ paise} = \text{Rs } 29.35$

(iii) 73 paise and Rs 2.08

$= 73 + 2.08 \times 100$

Since, 100 paise = Rs 1

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$$= 73 + 208$$

$$= 281 \text{ paise}$$

$$\text{Now, } 281 / 100 = \text{Rs } 2.81$$

$$\therefore 73 \text{ paise} + \text{Rs } 2.08 = \text{Rs } 2.81$$

(iv) 8 paise and Rs 15.36

$$= 8 + 15.36 \times 100$$

$$\text{Since, } 100 \text{ paise} = \text{Rs } 1$$

$$= 8 + 1536$$

$$= 1544 \text{ paise}$$

$$\text{Now, } 1544 / 100 = \text{Rs } 15.44$$

$$\therefore 8 \text{ paise and Rs } 15.36 = \text{Rs } 15.44$$

8. Subtract:

(i) Rs 35.74 from Rs 63.22

(ii) 286 paise from Rs 7.02

(iii) Rs 0.55 from 121 paise

Solution:

(i) Rs 35.74 from Rs 63.22

$$63.22$$

$$35.74 -$$

$$27.48$$

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∴ The subtraction of Rs 35.74 from Rs 63.22 is Rs 27.48

(ii) 286 paise from Rs 7.02

$$= \text{Rs } 7.02 - 286 \text{ paise}$$

$$= \text{Rs } 7.02 - 286 / 100 [1 \text{ Rupee} = 100 \text{ paise}]$$

$$= \text{Rs } 7.02 - 2.86$$

$$= \text{Rs } 4.16$$

∴ The subtraction of 286 paise from Rs 7.02 is Rs 4.16

(iii) Rs 0.55 from 121 paise

$$= \text{Rs } 121 / 100 - 0.55$$

$$= \text{Rs } 1.21 - 0.55$$

$$= \text{Rs } 0.66$$

$$\text{Or } .66 \times 100 = 66 \text{ paise}$$

∴ The subtraction of Rs 0.55 from 121 paise = 66 paise

9. Add (giving answer in metre):

(i) 2.4 m and 1.78 m

(ii) 848 cm and 2.9 m

(iii) 0.93 m and 64 cm

Solution:

(i) 2.4 m and 1.78 m

$$2.40 \text{ m}$$

$$1.78 \text{ m} +$$

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4.18 m

∴ The addition of 2.4 m and 1.78 m = 4.18 m

(ii) 848 cm and 2.9 m

$$= 848 / 100 \text{ m} + 2.9 \text{ m} \{1 \text{ m} = 100 \text{ cm}\}$$

$$= 8.48 \text{ m} + 2.9 \text{ m}$$

8.48

2.9 +

11.38

∴ The addition of 848 cm and 2.9 m = 11.38 m

(iii) 0.93 m + 64 cm

$$= 0.93 \text{ m} + 64 / 100 \text{ cm}$$

$$= 0.93 \text{ m} + 0.64 \text{ m}$$

0.93

0.64 +

1.57

∴ The addition of 0.93 m + 64 cm = 1.57 m

10. Subtract (giving answer in metre):

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(i) 5.03 m from 19.6 m

(ii) 428 cm from 1033 m

(iii) 0.84 m from 122 cm

Solution:

(i) 5.03 m from 19.6 m

$$= 19.60 \text{ m} - 5.03 \text{ m}$$

We get,

$$= 14.57 \text{ m}$$

∴ The subtraction of 5.03 m from 19.6 m is 14.57 m

(ii) 428 cm from 1033 m

$$1033 \text{ m} - 428 \text{ cm}$$

$$= 1033 \text{ m} - 428 / 100 \text{ m}$$

Since, 1 m = 100 cm

$$= 1033 \text{ m} - 4.28 \text{ m}$$

$$= (1033.00 - 4.28) \text{ m}$$

$$= 1028.72 \text{ m}$$

∴ The subtraction of 428 cm from 1033 m is 1028.72 m

(iii) 0.84 m from 122 cm

$$= 122 / 100 \text{ m} - 0.84 \text{ m}$$

We get,

$$= 1.22 \text{ m} - 0.84 \text{ m}$$

$$= 0.38 \text{ m}$$

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∴ The subtraction of 0.84 m from 122 cm is 0.38 m

11. Add (giving answer in kg):

(i) 2.06 kg and 57.864 kg

(ii) 778 gm and 1.939 kg

(iii) 0.065 kg and 4023 gm

Solution:

(i) 2.06 kg and 57.864 kg

$$= 2.06 \text{ kg} + 57.864 \text{ kg}$$

Converting the decimals into like decimals

We get,

$$= 2.060 \text{ kg} + 57.864 \text{ kg}$$

$$= 59.924 \text{ kg}$$

∴ The addition of 2.06 kg and 57.864 kg is 59.924 kg

(ii) 778 gm and 1.939 kg

First convert the 778 gm into kg

We get,

$$= 778 / 1000 \text{ kg} + 1.939 \text{ kg}$$

$$= 0.778 \text{ kg} + 1.939 \text{ kg}$$

$$= 2.717 \text{ kg}$$

∴ The addition of 778 gm and 1.939 kg is 2.717 kg

(iii) 0.065kg + 4023 gm

$$= 0.065 \times 1000 \text{ gm} + 4023 \text{ gm}$$

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We get,

$$= 65 \text{ gm} + 4023 \text{ gm}$$

$$= 4088 \text{ gm}$$

Now, converting into kilogram, we get

$$= 4088 / 1000$$

$$= 4.088 \text{ kg}$$

∴ The addition of 0.065 kg and 4023 gm is 4.088 kg

12. Subtract (giving answer in kg):

(i) 9.462 kg from 15.6 kg

(ii) 4317 gm from 23 kg

(iii) 0.798 kg from 4169 gm

Solution:

(i) 9.462 kg from 15.6 kg

$$= 15.6 \text{ kg} - 9.462 \text{ kg}$$

Converting the decimals into like decimals

We get,

$$= 15.600 \text{ kg} - 9.462 \text{ kg}$$

$$= 6.138 \text{ kg}$$

∴ The subtraction of 9.462 kg from 15.6 kg is 6.138 kg

(ii) 4317 gm from 23 kg

$$= 23 \text{ kg} - 4317 \text{ gm}$$

Converting the 4317gm into kg, we get

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$$= 23 \text{ kg} - 4317 / 1000 \text{ kg}$$

$$= 23 \text{ kg} - 4.317 \text{ kg}$$

Converting into like decimals, we get

$$= 23.000 \text{ kg} - 4.317 \text{ kg}$$

$$= 18.683 \text{ kg}$$

∴ The subtraction of 4317 gm from 23 kg is 18.683 kg

(iii) 0.798 kg from 4169 gm

Converting the 4169 gm into kg, we get

$$4169 / 1000 \text{ kg} - 0.798 \text{ kg}$$

$$= 4.169 \text{ kg} - 0.798 \text{ kg}$$

$$= 3.371 \text{ kg}$$

∴ The subtraction of 0.798 kg from 4169 gm is 3.371 kg

Exercise 15(e)

1. The cost of a fountain pen is Rs 13.25. Find the cost of 8 such pens.

Solution:

Given

The cost of a fountain pen = Rs 13.25

The cost of 8 pens can be calculated as below

$$\text{Cost of 8 fountain pens} = 13.25 \times 8$$

$$= 106.00$$

$$= \text{Rs } 106$$

Therefore, the cost of 8 fountain pens is Rs 106

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2. The cost of 25 identical articles is Rs 218.25. Find the cost of one article

Solution:

Given

Cost of 25 articles = Rs 218.25

Cost of one article can be calculated as below

Cost of 1 article = $218.25 / 25$

= $21825 / (25 \times 100)$

We get,

= $873 / 100$

= Rs 8.73

Therefore, the cost of one article is Rs 8.73

3. The length of an iron rod is 10.32 m. The rod is divided into 4 pieces of equal lengths. Find the length of each piece.

Solution:

Given

The length of an iron rod = 10.32 m

The rod is divided into 4 pieces of equal length

The length of each piece can be calculated as below

= $10.32 / 4$

= 2.58 m

Therefore, the length of each piece of rod is 2.58 m

4. What will be the total length of cloth required to make 5 shirts, if 2.15 m of cloth is needed for each shirt?

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Given

Cloth required for one shirt = 2.15 m

Cloth required for 5 shirts can be calculated as below

$$= 2.15 \times 5$$

$$= 10.75 \text{ m}$$

Therefore, cloth required for 5 shirts is 10.75 m

5. Find the distance walked by a boy in $1\frac{1}{2}$ hours, if he walks at 2.150 km every hour

Solution:

Given

Distance covered by a boy in 1 hour = 2.150 km

Distance covered in one and half hours can be calculated as below

$$1\frac{1}{2} \text{ hours} = 3 / 2 \text{ hour}$$

$$= 2.150 \times 3 / 2$$

$$= 1.075 \times 3$$

$$= 3.225 \text{ km}$$

Therefore, the distance covered by a boy in one and half hours is 3.225 km

6. 83 note-books are sold at Rs 15.25 each. Find the total money (in rupees) obtained by selling these note-books.

Solution:

Given

Sale price of 1 note-book = Rs 15.25

Sale price of 83 note-books can be calculated as below

$$\text{Sale price of 83 books} = \text{Rs } 15.25 \times 83$$

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= Rs 1265.75 paise

Therefore, the total amount obtained by selling 83 note-books is Rs 1265.75 paise

7. If length of one bed-cover is 2.1 m, find the total length of 17 bed-covers.

Solution:

Given

Length of one bed-cover = 2.1 m

The length of 17 bed-covers can be calculated as below

$$= 17 \times 2.1$$

$$= 35.7 \text{ m}$$

Therefore, the total length of 17 bed-covers is 35.7 m

8. A piece of rope is 10 m 67 cm long. Another rope is 16 m 32 cm long. By how much is the second rope longer than the first one?

Solution:

Given

Length of one rope = 10 m 67 cm

Another rope length = 16 m 32 cm

The difference between the two rope lengths can be calculated as below

$$= 16 \text{ m } 32/100 \text{ cm} - 10 \text{ m } 67/100 \text{ cm}$$

$$= 16.32 \text{ m} - 10.67 \text{ m}$$

We get,

$$= 5.65 \text{ m}$$

$$= 5 \text{ m } 65 \text{ cm}$$

Therefore, the length of second rope is longer than the first rope by 5.65 m

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9. 12 cakes of soap together weigh 5 kg and 604 gm. Find the weight of

(i) One cake in both kg and gramme

(ii) 5 cakes in kg

Solution:

Given

Weight of 12 cakes of soap = 5 kg and 604 gm

604 gm = 5 kg and 604 / 1000 kg

= 5.604 kg

(i) Weight of 12 cakes = 5.604 kg

Hence, weight of 1 cake = 5.604 / 12

= 0.467kg

Weight in gm = 0.467 × 1000

= 467 gm

(ii) Weight of one cake = 0.467 kg

Weight of 5 cakes can be calculated as below

Weight of 5 cakes = 0.467 × 5

= 2.335 kg

10. Three strings of lengths 50 m 75 cm, 68 m 58 cm and 121 m 3 cm, respectively, are joined together to get a single string of greatest length, and the length of the single string obtained. If this single string is then divided into 12 equal pieces, find the length of each piece.

Solution:

Given

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First string $50\text{m } 75\text{ cm} = 50.75\text{ m}$

Second string $68\text{ m } 58\text{ cm} = 68.58\text{ m}$

Third string $121\text{ m } 3\text{ cm} = 121.03\text{ m}$

On joining the length of three strings $= 50.75 + 68.58 + 121.03$

$= 240.36\text{ m}$

Now,

One string $= 240.36\text{ m}$

Dividing the strings into 12 parts $= 240.36 / 12$

$= 20.03\text{ m}$

Therefore, the length of each piece is 20.03 m



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- Chapter 12- Proportion
- Chapter 13- Unitary Method
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- Chapter 15- Decimal Fractions
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