ODM EDUCATIONAL GROUP
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CLASS : V

SUBJECT : MATHEMATICS

CHAPTER NUMBER: 10

CHAPTER NAME : DECIMAL FRACTIONS

SUB-TOPIC : ROUNDING OFF OF DECIMAL

EXERCISE 10 A Q.NO. 12 & 16

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Rounding off decimals

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To the nearest ones:

9.6 = 10.0 = 10

Ones place

Next digit is 6 which is 6 > 5

6.2 = 6. 0 = 6
5. 5 = 6.0 = 6
7. 7 = 8.0 = 8

Rounding off decimals

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To the nearest tenths:

Round off the following to nearest tenths

a. 9.76 = 9.8 because hundredths place digit 6 > 5

b. 15 . 72 = 15 . 70 = 15 . 7

c. 54 . 485 = 54 . 500 = 54 . 5

Rounding off decimals

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To the nearest hundredths:

Round off the following to nearest hundredths

a. 9.567 = 9.570 = 9.57 because thousandths place digit 7 > 5

b. 73 . 318 = 73 . 32

c. 225 . 562 = 225 . 56

Rounding off decimals

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To the nearest whole number:

Round off the following to nearest whole number

a. 8 9.8 6 7 = The nearest whole number is 90 because 8 > 5

b. 7 3 9 . 8 0 7 = 740

Let's Solve This!

EXERCISE 10 - A

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12. Round off to the nearest ONES.

a. 5.7 = 6.0 = 6

b. 38.7 = 39.0 = 39

c. 12.3 = 12.0 = 12

HW

d. 189. 5 = 190.0 = 190

e. 642.3 = 642.0 = 642

Let's Solve This!

EXERCISE 10 - A

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13. Round off to the nearest TENTHS.

a. 12.38 = 12.40 = 12.4

b. 48.43 = 48.4 = 48.4

c. 98.69 = 98.70 = 98.7

HW

d. 378. 45 = 378. 50 = 378.5

e. 940.08 = 940.10 = 940.1

Let's Solve This!

EXERCISE 10 - A

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14. Round off to the nearest HUNDREDTHS .

a. 5.583 = 5. 58

b. 33.366 = 33.37

c. 180.762 = 180. 76

HW

d. 786. 103 = 786.1

e. 388.008 = 388.01

Let's Solve This!

EXERCISE 10 - A

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15. Round off to the nearest HUNDREDTHS ,TENTHS then WHOLE NO..

	Hundredths	Tenths	Whole number
a. 9.382 =	9. 38	= 9.4	= 9
b. 51.175 =	51. 18	= 51.2	= 51
c. 100. 125 =	100. 13	= 100.1	= 100
HW			
d. 499. 862 =	499. 86	= 499. 9	= 500

EXERCISE 10 - A

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16. Round off to the nearest

a. Metre

i. 4. 56m = 5 m
ii. 19. 67m = 20 m
iii. 21. 23m = 21m
iv. 89. 56m = 90 m
v. 87. 24m = 87 m

b. Litre

i. 3. 467L = 3 L
ii. 36. 8L = 37 L
iii. 56. 398L = 56 L
iv. 5. 34L = 5 L
v. 9. 741L = 10 L

c. Kg

i. 4. 576kg = 5 kg
ii. 64.362kg = 64 kg
iii. 87. 560kg = 88 kg
iv. 78. 340kg = 78 kg
v. 89. 56 kg = 90 kg

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- Complete exercise 10 A q.no. 12 & 15 bit d and e in the notebook.

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Students are able to round off the decimal fractions to the nearest tenths, hundredths and whole number.

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CLASS : V

SUBJECT : MATHEMATICS

CHAPTER NUMBER: 10

CHAPTER NAME : DECIMAL FRACTIONS

SUB-TOPIC : ADDITION AND SUBTRACTION OF DECIMAL FRACTIONS.

EXERCISE 10 B Q. No. 1 to 7

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1. Arrange according to the places and decimal places.
2. Then add or subtract.

EXAMPLE: 1

12.27 + 13.09

$$= \begin{array}{r} 12.27 \\ +\ 13.09 \\ \hline 25.36 \end{array}$$

EXAMPLE: 2

Subtract 189.76 from 500

$$= \begin{array}{r} 4\ 9\ 9\ 9\ 10 \\ \cancel{5}\ \cancel{0}\ \cancel{0}.\ \cancel{0}\ \cancel{0} \\ -\ 1\ 8\ 9.\ 7\ 6 \\ \hline 3\ 1\ 0.\ 2\ 4 \end{array}$$

EXERCISE -10 B

1. Add the following

a) 3.5 , 16.08 , 125.073

$$\begin{array}{r} 3.500 \\ + \quad 16.080 \\ 125.073 \\ \hline 144.653 \end{array}$$

b) 20.25 , 0.2025 , 2.025 , 202.5

$$\begin{array}{r} 20.2500 \\ 0.2025 \\ + \quad 2.0250 \\ 202.5000 \\ \hline 224.9775 \end{array}$$

EXERCISE -10 B

1. Add the following

c) 44.6 , 80. 6 , 96.0 , 0.75

$$
\begin{array}{r}
44.60 \\
80.60 \\
+\ 96.00 \\
0.75 \\
\hline
\end{array}
$$

221.95

EXERCISE -10 B

2. Subtract the following

a) 0.36 − 0.2431

$$\begin{array}{r} 0.3600 \\ - \quad 0.2431 \\ \hline \end{array}$$

0.1169

b) 0.705 − 0.598

$$\begin{array}{r} 0.705 \\ - \quad 0.598 \\ \hline \end{array}$$

0.107

EXERCISE -10 B

2. Subtract the following

c) 0. 02 — 0. 002

$$\begin{array}{r} 0.020 \\ - \quad 0.002 \\ \hline \end{array}$$

$$\boxed{0.018}$$

EXERCISE 10 – B

- **3. Take away 36.83 from 100.**

Solution

$$\begin{array}{r} {}^{9\,9\,.\,9\,10} \\ \not{1}\not{0}\not{0}.\not{0}\not{0} \\ -\quad 36.83 \\ \hline \boxed{63.17} \end{array}$$

- **4. Take away 112. 5168 from 150.**

Solution

$$\begin{array}{r} {}^{4\,9\,.\,9\,9\,9\,10} \\ 1\not{5}\not{0}.\not{0}\not{0}\not{0}\not{0} \\ -\quad 112.5168 \\ \hline \boxed{37.4832} \end{array}$$

EXERCISE 10 – B

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5. Find the difference between 89.02 and 9.8924.

Solution

$$\begin{array}{r} 89.0200 \\ - \quad 9.8924 \\ \hline 79.1276 \end{array}$$

6. Find the difference between 0.9 and 0.0945

Solution

$$\begin{array}{r} 0.9000 \\ - \quad 0.0945 \\ \hline 0.8055 \end{array}$$

EXERCISE 10 – B

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7. How much should be added to 642.57 to get 900?

Solution

$$\begin{array}{r} 900.00 \\ - \quad 642.57 \\ \hline \boxed{257.43} \end{array}$$

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Students are able to add and subtract decimal fractions.

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CLASS : V

SUBJECT : MATHEMATICS

CHAPTER NUMBER: 10

CHAPTER NAME : DECIMAL FRACTIONS

SUB-TOPIC : SIMPLIFICATION

EXERCISE 10 B Q.NO. 8 TO 11

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EXERCISE 10 – B

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8. How much should be subtracted from 1500 to get 1125. 15?

Solution

$$\begin{array}{r} 1500.00 \\ -\ 1125.15 \\ \hline \boxed{374.85} \end{array}$$

EXERCISE 10 – B

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9.By how much does 94.8 exceed 64.025?

Solution

$$\begin{array}{r} 94.800 \\ - \quad 64.025 \\ \hline 30.775 \end{array}$$

10.Find the sum of 0.9483 and 10.07 and then subtract 5.3156 from it.

Solution

$$\begin{array}{r} 10.0700 \\ + \quad 0.9483 \\ \hline 11.0183 \end{array}$$

$$\begin{array}{r} 11.0183 \\ - \quad 5.3156 \\ \hline 5.7027 \end{array}$$

Ans

SIMPLIFICATION OF DECIMALS

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EXAMPLE:- 1

Simplify 14.8 - 75.72 + 80 – 5. 275

Solution

1

$$\begin{array}{r} 14.8 \\ +\ 80.0 \\ \hline 94.8 \end{array}$$

2.

$$\begin{array}{r} 75.720 \\ +\ 5.275 \\ \hline 80.995 \end{array}$$

3.

$$\begin{array}{r} 94.800 \\ -\ 80.995 \\ \hline 13.805 \end{array}$$

EXERCISE 10 – B

Simplify

a. 3.26 + 5.4 – 6.8

Solution

$$\begin{array}{r} 3.26 \\ +\ 5.40 \\ \hline 8.66 \end{array}$$

$$\begin{array}{r} 8.66 \\ -\ 6.80 \\ \hline 1.86 \end{array}$$

EXERCISE 10 – B

Simplify

b. 8.8 – 3.65 – 15.008 + 30.625

Solution

$$8.800 + 30.625 = 39.425$$

$$39.425 - 3.650 = 35.775$$

$$35.775 - 15.008 = 20.767$$

EXERCISE 10 – B

Simplify

c. 141.6 – 100 – 80.38 + 65.358

Solution

$$\begin{array}{r} 141.600 \\ +\ \ 65.358 \\ \hline 206.958 \end{array}$$

$$\begin{array}{r} 206.958 \\ -\ \ 100.000 \\ \hline 106.958 \end{array}$$

$$\begin{array}{r} 106.958 \\ -\ \ 80.380 \\ \hline 26.578 \end{array}$$

- **Complete exercise 10 B Q.No. 11 bit d and f in the notebook.**

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Students are able to solve problems related to addition and subtraction of decimal.

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Changing your Tomorrow

CLASS : V

SUBJECT : MATHEMATICS

CHAPTER NUMBER: 10

CHAPTER NAME : DECIMAL FRACTIONS

SUB-TOPIC : MULTIPLICATION OF DECIMAL FRACTIONS

EXERCISE 10 C & D

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Multiplication by 10, 100, 1000 etc.

Move the decimal point to the **right** as to the numbers of zeros

0.256 x 10 = 2.56

0.5986 x 100 = 59.86

12.256923 x 1000 = 12256.923

Multiplication by a whole number:

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Example: 1

Multiply **17.25 by 15**

```
   1 7 . 2 5
x        1 5
-------------
   8 6 2 5
1 7 2 5 0
-------------
2 5 8 . 7 5
```

Step 1: Multiply

Step 2: Put the decimal point exactly before the digits given in the question.

before 2 digits

Multiplication by a decimal fraction:

Example: 1

Multiply **7.25 by 0.5**

$$\begin{array}{r} 7.25 \\ \times\ 0.5 \\ \hline 3.625 \end{array}$$

2 decimal places

1 decimal place

3 decimal places

EXERCISE 10 [C]

1. Multiply the following by 10, 100 and 1000.

a. 0.487	= 0.487 x 10 = 4.87	0.487 x 100 = 48.7	0.487 x 1000 = 487
b. 0.5671	= 0.5671 x 10 = 5.671	0.5671 x 100 = 56.71	0.5671 x 1000 = 567.1
c. 6.063	= 6.063 x 10 = 60.63	6.063 x 100 = 606.3	6.063 x 1000 = 6063

EXERCISE 10 [D]

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2. Find the value

a. 0.4837 x 1000 = 483.7

b. 0. 389 x 10000 = 3890

c. 123.8 x 100 = 12380

EXERCISE 10 [D]

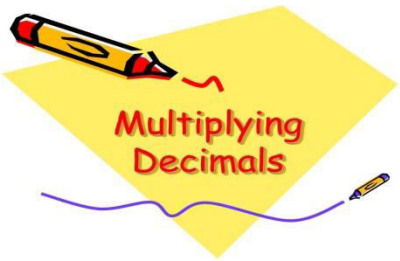
1. Find the product

a.
$$\begin{array}{r} 1.88 \\ \times \quad 16 \\ \hline 1128 \\ 1880 \\ \hline \end{array}$$
30.08

b.
$$\begin{array}{r} 16.32 \\ \times \quad 8 \\ \hline \end{array}$$
130.56

c.
$$\begin{array}{r} 41.08 \\ \times \quad 32 \\ \hline 8216 \\ 123140 \\ \hline \end{array}$$
1314.56

d.
$$\begin{array}{r} 4.032 \\ \times \quad 85 \\ \hline 20160 \\ 322560 \\ \hline \end{array}$$
342.720



EXERCISE 10 [D]

2 . Find the product

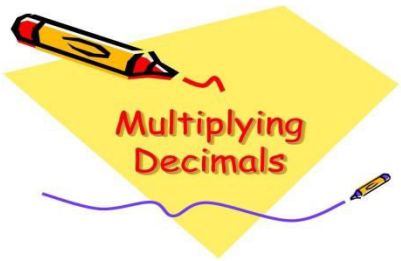
a.
$$\begin{array}{r} 18.4 \\ \times\ 0.12 \\ \hline 368 \\ 1840 \\ \hline \mathbf{2.208} \end{array}$$

c.
$$\begin{array}{r} 1.32 \\ \times\ .0008 \\ \hline \mathbf{0.0010056} \end{array}$$

e. $1.18 \times 0.046 \times .07$

$$\begin{array}{r} =1.18 \\ \times 0.46 \\ \hline 708 \\ 4720 \\ \hline 0.5428 \end{array}$$

$$\begin{array}{r} 0.5428 \\ \times .07 \\ \hline \mathbf{0.037996} \end{array}$$



EXERCISE 10 [D]

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Q.3 If 324 x 12 = 3888, then find the product without performing multiplication.

a) 3.24 x 12 = 38. 88

b) 32.4 x 12 = 388.8

c) 0.324 x 12 = 3.888

d) 0.00324 x 12 = 0.03888

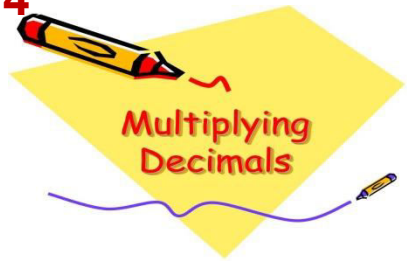
Q.4 If 614.6 x 9 = 5531.4, then find the product without performing multiplication.

a) 61.46 x 9 = **553.14**

b) 0.6146 x 9 = **5.5314**

c) 6146 x 9 = **55314**

d) 6.146 x 9 = **55.314**



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Students are able to multiply decimal fractions by 10, 100, 1000 and whole number.

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CLASS : V

SUBJECT : MATHEMATICS

CHAPTER NUMBER: 10

CHAPTER NAME : DECIMAL FRACTIONS

SUB-TOPIC : DIVISION OF DECIMAL FRACTIONS

EXERCISE 10 E

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DIVISION OF DECIMAL BY 10, 100 OR 1000.

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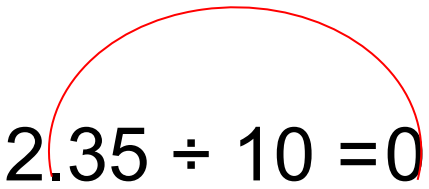
To divide a decimal by 10 , 100 or 1000: Move the decimal point to left as the number of zeros.



$$2.35 \div 10 = 0.235$$

There is one zero so the decimal point moves to one place left

DIVISION OF DECIMALS

DIVISION OF DECIMAL BY 10, 100 OR 1000.

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Example: 1

3 6 0 . 0 3 6 ÷ 100 = **3 . 6 0 0 3 6**

3 6 9 . 1 2 3 ÷ 1000 = **0 . 3 6 9 1 2 3**

8 7 1 ÷ 1 0 0 = **8 . 7 1**

5 0 6 9 ÷ 1 0 = **5 0 6 . 9**

DIVISION OF DECIMALS

EXERCISE 10 [E]

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1. Divide the following by 10, 100, 1000

	by 10	by 100	by 1000
a. 12 =	1.2	0 . 12	0 . 012
b. 75 =	7 . 5	0 . 75	0 . 075
c. 1767 =	176 . 7	17 . 67	1 . 767
d. 89.76 =	8 . 976	0 . 8976	0 . 08976
e. 201. 2 =	20 . 12	2 . 012	0 . 2 012

EXERCISE 10 [E]

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2. Write down the values

a. 64 . 83 ÷ 100 = $\frac{6483}{100} \div 100 = \frac{6483}{100} \times \frac{1}{100}$

$= \frac{6483}{10000} =$ 0. 6483

b. 328 ÷ 1000 =

$= \frac{328}{1000} =$ 0. 328

EXERCISE 10 [E]

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2. Write down the values

c. $17 . 48 \div 10 = \frac{1748}{100} \div 10 = \frac{1748}{100} \times \frac{1}{10}$

$= \frac{1748}{1000} = 1.748$

d. $217 . 4 \div 100 = \frac{2174}{10} \div 100 = \frac{2174}{10} \times \frac{1}{100}$

$= \frac{2174}{1000} = 2 . 174$

- Complete exercise 10 E in the notebook.

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Students are able to divide decimal fractions by 10, 100, 1000.

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CLASS : V

SUBJECT : MATHEMATICS

CHAPTER NUMBER: 10

CHAPTER NAME : DECIMAL FRACTIONS

SUB-TOPIC : DIVISION OF DECIMAL FRACTIONS BY A WHOLE NUMBER AND DECIMAL. EXERCISE 10 F

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DIVISION OF DECIMAL BY WHOLE NUMBER

Example: Divide 0.406 by 29

$$0.406 \div 29 = \frac{\cancel{406}^{14}}{1000} \times \frac{1}{\cancel{29}} = \mathbf{0.014}$$

Or

$$\begin{array}{r|l} & \mathbf{0.014} \\ \hline 29 & 0.406 \\ & 0 \\ \hline & 0.4 \\ & 0 \\ \hline & 40 \\ & 29 \\ \hline & 116 \\ & 116 \\ \hline & 0 \end{array}$$

DIVISION OF DECIMALS

DIVISION OF DECIMAL BY WHOLE NUMBER

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Example: Divide 82. 25 by 5

$$82.25 \div 5 = \frac{8225}{100} \times \frac{1}{5} = \frac{1645}{} = \mathbf{16.45}$$

DIVISION OF DECIMALS

EXERCISE 10 F

1. Divide

a. 0.406 by 29

$$0.406 \div 29 = \frac{\cancel{406}^{14}}{1000} \times \frac{1}{\cancel{29}} = \mathbf{0.014}$$

b. 24.9 by 300

$$= \mathbf{0.083}$$

$$
\begin{array}{r|l}
300 & 24.9 \\
 & \underline{0} \\
 & 249 \\
 & \underline{0} \\
 & 2490 \\
 & \underline{2400} \\
 & 900 \\
 & \underline{900} \\
 & 0
\end{array}
\qquad \mathbf{0.083}
$$

DIVISION OF DECIMALS

EXERCISE 10 F

1. Divide

c. 147.2 by 230

$$
\begin{array}{r|l}
230 & 147.2 \\
 & 0 \\
\hline
 & 1472 \\
 & 1380 \\
\hline
 & 920 \\
 & 920 \\
\hline
 & 0
\end{array}
\qquad 0.64
$$

DIVISION OF DECIMALS

EXERCISE 10 F

1. Divide

d. 650.3 by 7000

```
        0.  0929
7000 | 650.3
       0
       -----
       650 3
        0 .
       -----
        65030
        63000
       -----
          20300
          14000
       -----
             63000
             63000
       -----
             0
```

= 0.0929

DIVISION OF DECIMALS

EXERCISE 10 F

1. Divide

e. 17.4 by 2000

= 0.0087

```
        0.  0087
      ___________
 2000 | 17.4
        0
      ___________
        174
         0.
      ___________
         1740
            0
      ___________
          17400
          16000
      ___________
           14000
           14000
      ___________
               0
```

DIVISION OF DECIMALS

EXERCISE 10 F

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1. Divide

f. 108.8 by 8000

= 0.0136

```
         0. 0136
       ____________
8000 | 108 . 8
       0
       ____________
       1088
        0.
       ____________
        10880
         8000
       ____________
        28800
        24000
       ____________
         48000
         48000
       ____________
           0
```

DIVISION OF DECIMALS

EXERCISE 10 F

1. Divide

g. 0.8432 by 0.8

$$0.8432 \div 0.8 = \frac{8432}{10000} \div \frac{8}{10}$$

$$\frac{\cancel{8432}^{1054}}{\cancel{10000}} \times \frac{\cancel{10}}{\cancel{8}} = 1054$$

$$= \frac{1054}{1000}$$

$$= 1.054$$

DIVISION OF DECIMALS

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Students are able to divide decimal fractions by 10, 100, 1000 and whole number.

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