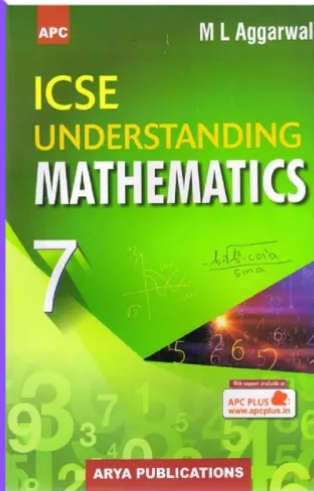


ML Aggarwal Solutions for Class 7 Maths

Chapter 2- Fractions and Decimals



ML Agrawal Solutions

CLASS 7 MATHS

Chapter 2: Fractions and
Decimals

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ML Aggarwal Solutions for Class 7 Maths

Chapter 2- Fractions and Decimals

Class 7: Maths Chapter 2 solutions. Complete Class 7 Maths Chapter 2 Notes.

ML Aggarwal Solutions for Class 7 Maths Chapter 2- Fractions and Decimals

ML Aggarwal 7th Maths Chapter 2, Class 7 Maths Chapter 2 solutions

1. What fraction of each of the following figure is shaded?

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(i)



(ii)



(iii)



(iv)

Solution:

(i) In the given figure, the shaded fraction is $2 / 8 = 1 / 4$

(ii) In the given figure, the shaded fraction is $3 / 10$

(iii) In the given figure, the shaded fraction is $5 / 12$

(iv) In the given figure, the shaded fraction is $7 / 13$

2. Evaluate the following:

(i) $(4 / 3) + (7 / 8)$

(ii)

(iii) $(5 / 12) + (1 / 18) - (2 / 9)$

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Solution:

(i) $(4 / 3) + (7 / 8)$

L.C.M. of 3, 8 is 24, we get,

$$= (32 + 21) / 24$$

$$= 53 / 24$$

We get,

$$= 2\frac{5}{24}$$

(ii) $8\frac{1}{2} - 3\frac{5}{8}$

This can be written as,

$$= (17 / 2) - (29 / 8)$$

L.C.M. of 2, 8 is 8, we get,

$$= (68 - 29) / 8$$

$$= 39 / 8$$

We get,

$$= 4\frac{7}{8}$$

(iii) $(5 / 12) + (1 / 18) - (2 / 9)$

L.C.M. of 12, 18, 9 is 36, we get,

$$= (15 + 2 - 8) / 36$$

$$= (9) / 36$$

$$= 1 / 4$$

Dividing both numerator and denominator by 9, we get,

$$= (1) / (4)$$

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We get,

$$= 1 / 4$$

3. Evaluate the following:

(i) $7 \times (3 / 5)$

(ii) $21 \times (3 / 14)$

(iii) $\times 8$

(iv) $5 \times$

Solution:

(i) $7 \times (3 / 5)$

On simplification, we get,

$$= 21 / 5$$

$$= 4\frac{1}{5}$$

(ii) $21 \times (3 / 14)$

On further calculation, we get,

$$= 9 / 2$$

$$= 4\frac{1}{2}$$

(iii) $3\frac{2}{5} \times 8$

This can be written as,

$$= (17 / 5) \times 8$$

On calculating further, we get,

$$= 136 / 5$$

$$= 27\frac{1}{5}$$

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(iv) $5 \times 6\frac{3}{4}$

This can be written as,

$$= 5 \times (27 / 4)$$

$$= 135 / 4$$

We get,

$$= 33\frac{3}{4}$$

4. Find the reciprocal of each of the following:

(i) $3 / 7$

(ii) $13 / 9$

(iii) 8

Solution:

(i) The reciprocal of $3 / 7$ is $7 / 3$

(ii) The reciprocal of $13 / 9$ is $9 / 13$

(iii) The reciprocal of 8 is $1 / 8$

5. Write the following numbers in the expanded form:

(i) **20.03**

(ii) **200.03**

(iii) **2.034**

Solution:

(i) 20.03

The expanded form of the given decimal is shown below,

$$= 2 \times 10 + 0 \times 1 + 0 \times (1 / 10) + 3 \times (1 / 100)$$

(ii) 200.03

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The expanded form of the given decimal is shown below,

$$= 2 \times 100 + 0 \times 10 + 0 \times 1 + 0 \times (1 / 10) + 3 \times (1 / 100)$$

(iii) 2.034

The expanded form of the given decimal is shown below,

$$= 2 \times 1 + 0 \times (1 / 10) + 3 \times (1 / 100) + 4 \times (1 / 1000)$$

6. Find the following:

(i) 2.7×4

(ii) 2.71×5

(iii) 2.5×0.3

(iv) 2.3×4.35

(v) 238.06×7.5

(vi) 0.79×32.4

(vii) 1.07×0.02

(viii) 10.05×1.05

Solution:

(i) 2.7×4

$$= (27 / 10) \times 4$$

$$= 108 / 10$$

$$= 10.8$$

(ii) 2.71×5

On calculation, we get,

$$= (271 / 100) \times 5$$

$$= 1355 / 100$$

We get,

$$= 13.55$$

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(iii) 2.5×0.3

On further calculation, we get,

$$= (25 / 10) \times (3 / 10)$$

$$= 75 / 100$$

We get,

$$= 0.75$$

(iv) 2.3×4.35

On further calculation, we get,

$$= (23 / 10) \times (435 / 100)$$

$$= 10005 / 1000$$

We get,

$$= 10.005$$

(v) 238.06×7.5

On simplification, we get,

$$= (23806 / 100) \times (75 / 10)$$

$$23806$$

$$\times 75$$

$$119030$$

$$1666420$$

$$1785450$$

$$= 1785450 / 1000$$

We get,

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$$= 1785.45$$

(vi) 0.79×32.4

On further calculation, we get,

$$= (79 / 100) \times (324 / 10)$$

$$324$$

$$\times 79$$

$$2916$$

$$22680$$

$$25596$$

$$= 25596 / 1000$$

We get,

$$= 25.596$$

(vii) 1.07×0.02

On simplification, we get,

$$= (107 / 100) \times (2 / 100)$$

$$= 214 / 10000$$

We get,

$$= 0.0214$$

(viii) 10.05×1.05

On calculating, we get,

$$= (1005 / 100) \times (105 / 100)$$

$$1005$$

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$\times 105$

5025

100500

105525

$= 105525 / 10000$

We get,

$= 10.5525$

7. Simplify the following:

(i) $(3 / 5)$ of $+$

(ii) $(4 / 5) \times -2 \times (3 / 5)$

(iii) $\{(4 / 5) + 2\}\{3 - (2 / 3)\}$

Solution:

(i) $(3 / 5)$ of $1\frac{1}{9} + 3\frac{1}{2}$

This can be written as,

$= (3 / 5)$ of $(10 / 9) + (7 / 2)$

$= (3 / 5) \times (10 / 9) + (7 / 2)$

We get,

$= (2 / 3) + (7 / 2)$

L.C.M. of 3, 2 is 6, we get,

$= (4 + 21) / 6$

$= 25 / 6$

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

$$(ii) (4/5) \times 2\frac{3}{8} - 2 \times (3/5)$$

This can be written as,

$$= (4/5) \times (19/8) - 2 \times (3/5)$$

We get,

$$= (19/10) - (6/5)$$

L.C.M. of 10, 5 is 10, we get,

$$= (19 - 12) / 10$$

We get,

$$= (7/10)$$

$$(iii) \{(4/5) + 2\}\{3 - (2/3)\}$$

On simplification, we get,

$$= \{(4 + 10) / 5\} \times \{(9 - 2) / 3\}$$

$$= (14/5) \times (7/3)$$

$$= (14 \times 7) / (5 \times 3)$$

We get,

$$= 98 / 15$$

$$= 6\frac{8}{15}$$



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- Chapter 2- Fractions and Decimals
- Chapter 3- Rational Numbers
- Chapter 4- Exponents and Powers
- Chapter 5- Sets
- Chapter 6- Ratio and Proportion
- Chapter 7- Percentage and Its Applications
- Chapter 8- Algebraic Expressions
- Chapter 9- Linear Equations and Inequalities
- Chapter 10- Lines and Angles
- Chapter 11- Triangles and its Properties
- Chapter 12- Congruence of Triangles
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About ML Aggarwal

M. L. Aggarwal, is an Indian mechanical engineer, educator. His achievements include research in solutions of industrial problems related to fatigue design. Recipient Best Paper award, Manipal Institute of Technology, 2004. Member of TSTE.

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