# Mathematics

(www.tiwariacademy.com) (Chapter - 2) (Fractions and Decimals) (Class - VIII)

# Exercise 2.1

#### Question 1:

Solve:

(i) 
$$2-\frac{3}{5}$$

(iii) 
$$\frac{3}{5} + \frac{2}{7}$$

(v) 
$$\frac{5}{10} + \frac{2}{5} + \frac{3}{2}$$

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

(ii) 
$$4 + \frac{7}{8}$$

(iv) 
$$\frac{9}{11} - \frac{4}{15}$$

(vi) 
$$2\frac{2}{3} + 3\frac{1}{2}$$

#### Answer 1:

(i) 
$$2 - \frac{3}{5} = \frac{10 - 3}{5} = \frac{7}{5} = 1\frac{2}{5}$$

(ii) 
$$4 + \frac{7}{8} = \frac{32 + 7}{8} = \frac{39}{8} = 4\frac{7}{8}$$

(iii) 
$$\frac{3}{5} + \frac{2}{7} = \frac{21+10}{35} = \frac{31}{35}$$

(iv) 
$$\frac{9}{11} - \frac{4}{15} = \frac{135 - 44}{165} = \frac{91}{165}$$

(v) 
$$\frac{7}{10} + \frac{2}{5} + \frac{3}{2} = \frac{7+4+15}{10} = \frac{26}{10} = \frac{13}{5} = 2\frac{3}{5}$$

(vi) 
$$2\frac{2}{3} + 3\frac{1}{2} = \frac{8}{3} + \frac{7}{2} = \frac{16 + 21}{6} = \frac{37}{6} = 6\frac{1}{6}$$

(vii) 
$$8\frac{1}{2} - 3\frac{5}{8} = \frac{17}{2} - \frac{29}{8} = \frac{68 - 19}{8} = \frac{39}{8} = 4\frac{7}{8}$$

#### Ouestion 2:

Arrange the following in descending order: (i) 
$$\frac{2}{9}$$
,  $\frac{2}{3}$ ,  $\frac{8}{21}$ 

(ii) 
$$\frac{1}{5}, \frac{3}{7}, \frac{7}{10}$$

#### Answer 2:

(i) 
$$\frac{2}{9}, \frac{2}{3}, \frac{8}{21}$$
  $\Rightarrow \frac{14}{63}, \frac{42}{63}, \frac{24}{63}$ 

$$(0) = \frac{63}{63} \cdot \frac{14}{63}$$
  
 $\Rightarrow \frac{42}{63} > \frac{24}{63} > \frac{14}{63}$ 

Therefore, 
$$\frac{2}{3} > \frac{8}{21} > \frac{2}{9}$$

(ii) 
$$\frac{1}{5}, \frac{3}{7}, \frac{7}{10} \Rightarrow \frac{14}{70}, \frac{30}{70}, \frac{49}{70}$$

$$\Rightarrow \frac{49}{70} > \frac{30}{70} > \frac{14}{70}$$

Therefore, 
$$\frac{7}{10} > \frac{3}{7} > \frac{1}{5}$$

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# **Table of Contents Solution Of Ncert Maths Class Chapter 2**

- 1. Understanding the eBook Solution Of Ncert Maths Class Chapter 2
  - The Rise of Digital Reading Solution Of Ncert Maths Class Chapter 2
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Solution Of Ncert Maths Class Chapter 2
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Solution Of Ncert Maths Class Chapter 2
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Solution Of Ncert Maths Class Chapter 2
  - Personalized Recommendations
  - Solution Of Ncert Maths Class Chapter 2 User Reviews and Ratings

- Solution Of Ncert Maths Class Chapter 2 and Bestseller Lists
- 5. Accessing Solution Of Ncert Maths Class Chapter 2 Free and Paid eBooks
  - Solution Of Ncert Maths Class Chapter 2 Public Domain eBooks
  - Solution Of Ncert Maths Class Chapter 2 eBook Subscription Services
  - Solution Of Ncert Maths Class Chapter 2 Budget-Friendly Options
- 6. Navigating Solution Of Ncert Maths Class Chapter 2 eBook Formats
  - o ePub, PDF, MOBI, and More
  - Solution Of Ncert Maths Class Chapter 2 Compatibility with Devices
  - Solution Of Ncert Maths Class Chapter 2 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Solution Of Ncert Maths Class Chapter 2
  - Highlighting and Note-Taking Solution Of Ncert Maths Class Chapter 2
  - Interactive Elements Solution Of Ncert Maths Class Chapter 2
- 8. Staying Engaged with Solution Of Ncert Maths Class Chapter 2
  - o Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Solution Of Ncert Maths Class Chapter 2
- 9. Balancing eBooks and Physical Books Solution Of Ncert Maths Class Chapter 2
  - $\circ$  Benefits of a Digital Library
  - Creating a Diverse Reading Collection Solution Of Ncert Maths Class Chapter 2
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Solution Of Ncert Maths Class Chapter 2
  - Setting Reading Goals Solution Of Ncert Maths Class Chapter 2
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Solution Of Ncert Maths Class Chapter 2
  - Fact-Checking eBook Content of Solution Of Ncert Maths Class Chapter 2
  - Distinguishing Credible Sources

- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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