Operations with Rational Numbers

Set of rational numbers: $Q = \{\frac{a}{b} | a, b \in I, b \neq 0\}$

Addition and Subtraction

To add or subtract rationals, you need to find a common denominator.

Division

To divide by a rational number, multiply by the reciprocal.

$$\frac{a}{b} \div \frac{c}{d} = \frac{a}{b} \times \frac{d}{c}$$

$$= \frac{ad}{bc}$$

Example 1

Simplify $\frac{-2}{5} + \frac{3}{-2} - \frac{3}{10}$.

Solution

$$\frac{-2}{5} + \frac{3}{-2} - \frac{3}{10} = \frac{-4}{10} + \frac{-15}{10} - \frac{3}{10}$$

$$= \frac{-4 - 15 - 3}{10}$$

$$= \frac{-22}{10}$$

$$= \frac{-11}{5} \text{ or } -2\frac{1}{5}$$

Multiplication

 $\frac{d}{b} \times \frac{c}{d} = \frac{dc}{bd}$, but first reduce to lowest terms where possible.

More Than One Operation

Follow the order of operations.

Example 2

Simplify $\frac{3}{4} \times \frac{-4}{5} \div \frac{-3}{7}$.

Solution

$$\frac{\frac{3}{4} \times \frac{-4}{5} \div \frac{-3}{7} = \frac{3}{4} \times \frac{-4}{5} \times \frac{-7}{3}}{=\frac{\frac{1}{4}}{1} \times \frac{-\frac{7}{4}}{5} \times \frac{-7}{\frac{7}{3}}}$$
$$=\frac{\frac{7}{5} \text{ or } 1\frac{2}{5}}{=\frac{7}{5} \text{ or } 1\frac{2}{5}}$$

Practise

Evaluate

(a)
$$\frac{1}{4} + \frac{-3}{4}$$

(b)
$$\frac{1}{2} - \frac{-2}{3}$$

(c)
$$\frac{-3}{4} - \frac{1}{-4}$$
 (d) $\frac{-3}{5} + \frac{3}{-4}$

(d)
$$\frac{-3}{5} + \frac{3}{-4}$$

(e)
$$\frac{-1}{4} - 1\frac{1}{3}$$

(e)
$$\frac{-1}{4} - 1\frac{1}{3}$$
 (f) $-8\frac{1}{4} - \frac{-1}{-3}$

(g)
$$\frac{2}{-3} - 1\frac{5}{6}$$
 (h) $\frac{5}{-6} - 2\frac{1}{3}$

(h)
$$\frac{5}{-6} - 2\frac{1}{3}$$

(i)
$$\frac{-3}{5} + \frac{-3}{4} - \frac{7}{10}$$
 (j) $\frac{2}{3} - \frac{-1}{2} - \frac{1}{-6}$

2. Evaluate

(a)
$$\frac{4}{5} \times \frac{-20}{25}$$

(b)
$$\frac{3}{-2} \times \frac{6}{5}$$

(c)
$$\left(\frac{-1}{3}\right)\left(\frac{2}{-5}\right)$$

(d)
$$(\frac{9}{4})(\frac{-2}{-3})$$

(e)
$$\left(\frac{1}{-2}\right)\left(\frac{-2}{5}\right)$$

(f)
$$\frac{-4}{5} \times \frac{10}{-4}$$

(g)
$$\left(\frac{-5}{12}\right)(-24)$$

(h)
$$\left(-2\frac{1}{4}\right)\left(\frac{2}{-9}\right)$$

(i)
$$\left(-1\frac{1}{10}\right)\left(3\frac{1}{11}\right)$$

(j)
$$-4\frac{1}{6} \times -7\frac{3}{4}$$

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Table of Contents Georgia 10th Grade Math Help

- 1. Understanding the eBook Georgia 10th Grade Math Help
 - The Rise of Digital Reading Georgia 10th Grade Math Help
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Georgia 10th Grade Math Help
 - 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 Georgia 10th Grade Math Help
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Georgia 10th Grade Math Help
 - Personalized Recommendations
 - Georgia 10th Grade Math Help User Reviews and Ratings
 - Georgia 10th Grade Math Help and Bestseller Lists

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