



# Practice Worksheet on Addition and Subtraction of Rational Numbers

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Subject: Mathematics

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## Long Answer Questions

1. Calculate:  $2\frac{1}{3} + 5\frac{2}{5}$

2. Subtract:  $7\frac{1}{4} - 3\frac{5}{6}$

3. Calculate:  $\frac{3}{4} + (-1\frac{1}{2})$

4. Subtract:  $-\frac{5}{8} - (-2\frac{1}{3})$

5. Multiply:  $2\frac{1}{2} * \frac{3}{4}$

6. Divide:  $\frac{5}{6}$   
 $/ \frac{2}{3}$

7. Calculate:  $-1\frac{2}{7} + (-3\frac{1}{4})$

8. Subtract:  $6\frac{1}{5} - 2\frac{3}{10}$

## Multiple Choice Questions

1. What is the result of  $\frac{1}{5} + \frac{1}{2}$ ?

- a)  $\frac{1}{2}$
- b)  $\frac{7}{10}$
- c)  $\frac{3}{5}$
- d)  $\frac{2}{5}$

2. What is  $\frac{1}{2} - \frac{1}{4}$ ?

- a) 1
- b) 2
- c)  $\frac{1}{4}$
- d)  $\frac{3}{4}$

3. Calculate  $\frac{1}{3} + \frac{2}{4}$

- a)  $\frac{11}{12}$
- b)  $\frac{5}{6}$
- c)  $\frac{1}{12}$
- d)  $\frac{5}{12}$

4. What is  $\frac{3}{4} - \frac{1}{2}$ ?

- a)  $\frac{3}{4}$
- b)  $\frac{1}{4}$
- c) 1
- d)  $\frac{1}{2}$

5. What is  $\frac{1}{3} - \frac{1}{6}$ ?

- a)  $-1/2$
- b)  $-2/3$
- c)  $1/6$
- d)  $1/2$

6. Calculate  $1/2 + 1/3$

- a)  $1/2$
- b)  $5/6$
- c)  $2/3$
- d) 1

7. What is  $1 - 1/2$ ?

- a) 2
- b) 1
- c)  $1/2$
- d) 0

8. Calculate  $1/2 + 1$ ?

- a) 1
- b)  $3/2$
- c) 2
- d)  $5/2$

# Answer Key

## Long Answer Questions - Expected Responses

1. Calculate:  $2\frac{1}{3} + 5\frac{2}{5}$

Expected Answer: Add the whole numbers, then add the fractions separately. Find a common denominator if necessary. Simplify the result.

2. Subtract:  $7\frac{1}{4} - 3\frac{5}{6}$

Expected Answer: Convert mixed numbers to improper fractions. Find a common denominator. Perform subtraction, then simplify.

3. Calculate:  $\frac{3}{4} + (-1\frac{1}{2})$

Expected Answer: Convert to improper fractions. Find a common denominator. Add and simplify.

4. Subtract:  $-\frac{5}{8} - (-2\frac{1}{3})$

Expected Answer: Convert to improper fractions and find a common denominator. Perform subtraction. Simplify the result.

5. Multiply:  $2\frac{1}{2} * \frac{3}{4}$

Expected Answer: Convert mixed numbers to improper fractions. Find a common denominator and multiply the numerators and denominators. Simplify the result.

6. Divide:  $\frac{5}{6}$   
 $/ \frac{2}{3}$

Expected Answer: Convert to improper fractions. Invert the second fraction and multiply. Simplify the result.

7. Calculate:  $-1\frac{2}{7} + (-3\frac{1}{4})$

Expected Answer: Convert to improper fractions. Find a common denominator. Add the fractions and simplify.

8. Subtract:  $6\frac{1}{5} - 2\frac{3}{10}$

Expected Answer: Convert mixed numbers to improper fractions. Find a common denominator. Subtract and simplify.

## Multiple Choice Questions - Correct Answers

1. What is the result of  $\frac{1}{5} + \frac{1}{2}$ ?

Correct Answer:  $\frac{7}{10}$

2. What is  $\frac{1}{2} - \frac{1}{4}$ ?

Correct Answer:  $\frac{1}{4}$

3. Calculate  $\frac{1}{3} + \frac{2}{4}$

Correct Answer:  $\frac{11}{12}$

4. What is  $\frac{3}{4} - \frac{1}{2}$ ?

Correct Answer:  $\frac{1}{4}$

5. What is  $\frac{1}{3} - \frac{1}{6}$ ?

Correct Answer:  $\frac{1}{6}$

6. Calculate  $\frac{1}{2} + \frac{1}{3}$

Correct Answer:  $\frac{5}{6}$

7. What is  $1 - \frac{1}{2}$ ?

Correct Answer:  $\frac{1}{2}$

8. Calculate  $\frac{1}{2} + 1$ ?

Correct Answer:  $3/2$