



# Fraction Worksheet for Class 6 – PDF Structure

(NCERT Chapter 7: Fractions)

## NCERT Chapter 7 – Practice Worksheets with Answers

Student Name: \_\_\_\_\_

Class & Section: \_\_\_\_\_

Date: \_\_\_\_\_

## Instructions

### For Students

- Read each question slowly and carefully before solving
- Write answers neatly and show steps where required
- Do not guess the answer; think before writing
- Use rough work space if needed
- Take your time and do not rush through questions

Remember, understanding the method is more important than finishing fast.

### For Parents

- Encourage your child to explain the steps aloud
- Focus on how the answer is written, not only the final answer
- Correct mistakes calmly and ask the child to try again
- Praise effort and improvement, not just correct answers

Your support and patience help children gain confidence in fractions.

Tip: Short daily practice with explanation works better than long study hours.

## Section 1: Equal Sharing & Fraction Basics

(NCERT Class 6 Maths – Chapter 7, Ex 7.1 aligned)

### Instructions for Students

Look at each question carefully.

Check whether the parts are equal before writing the fraction.

### Question Type 1: Identify the Fraction

1. A circle is divided into 4 equal parts. One part is shaded.  
Write the fraction for the shaded part. \_\_\_\_\_
2. A rectangle is divided into 6 equal parts.  
If 2 parts are shaded, write the fraction. \_\_\_\_\_

### Question Type 2: Shade the Given Fraction

3. Shade  $1/3$  of the given shape.  
(Teacher/Parent will provide the figure)
4. Shade  $3/5$  of a rectangle divided into equal parts.
5. Shade  $1/2$  of a circle divided into equal sections.

### Question Type 3: Write Fraction for Equal Parts

6. A chocolate bar is broken into 8 equal pieces.  
What fraction shows one piece? \_\_\_\_\_
7. A pizza is cut into 10 equal slices.  
Write the fraction for one slice. \_\_\_\_\_
8. A sheet of paper is divided into 4 equal parts.  
Write the fraction for the whole sheet. \_\_\_\_\_

### Thinking Question (Concept Check)

9. A shape is divided into unequal parts.  
Can it represent a fraction?  
Write Yes / No and give a short reason. \_\_\_\_\_

### Difficulty Level

● Easy – Focus on understanding equal parts.

## Section 2: Fractions as Parts of a Whole

(NCERT Class 6 Maths – Chapter 7, Ex 7.2 aligned)

### Instructions for Students

First identify the whole.

Then count the total equal parts and the parts taken.

### Question Type 1: Picture-Based Questions

1. A circle is divided into 8 equal parts.  
If 3 parts are shaded, write the fraction shown. \_\_\_\_\_
2. Look at the given picture.  
Identify the whole object. \_\_\_\_\_
3. A rectangle is divided into 6 equal parts.  
Write the fraction for one part. \_\_\_\_\_

### Question Type 2: Fill in the Numerator / Denominator

4. In the fraction  $5/9$ , the numerator is \_\_\_\_\_ and the denominator is \_\_\_\_\_.
5. If a whole is divided into 10 equal parts, the denominator will be \_\_\_\_\_.
6. Fill in the blank:  
\_\_\_\_ / 7 means three equal parts taken from seven.

### Question Type 3: Identify Whole and Parts

7. A pizza is divided into 12 equal slices.  
What fraction shows the whole pizza? \_\_\_\_\_
8. A shape has 4 shaded parts out of 9 equal parts.  
Write the fraction. \_\_\_\_\_

### Concept Check Question

9. If the parts of a shape are not equal,  
can we write a fraction?  
Write Yes / No and give one reason. \_\_\_\_\_

### Difficulty Level

 Easy–Moderate – Focus on whole vs parts.

## Section 3: Measuring Using Fractional Units

(NCERT Class 6 Maths – Chapter 7, Ex 7.3 aligned)

### Instructions for Students

Read each question carefully.

Think about one unit and how it is divided into equal parts.

### Question Type 1: Measure Lengths Using Fractions

1. A ribbon is 1 metre long.  
It is cut into 4 equal parts.  
Write the fraction for one part. \_\_\_\_\_
2. A pencil is  $3/4$  of a ruler.  
Write its length in fraction form. \_\_\_\_\_
3. A strip is divided into 6 equal parts.  
Write the fraction for 2 parts of the strip. \_\_\_\_\_

### Question Type 2: Compare Fractional Measurements

4. Which length is longer:  
 $1/2$  metre or  $1/3$  metre? \_\_\_\_\_
5. Compare using  $>$ ,  $<$  or  $=$   
 $3/4$  metre \_\_\_\_  $2/4$  metre
6. A rope is  $5/6$  metre long.  
Another rope is  $4/6$  metre long.  
Which rope is longer? \_\_\_\_\_

### Application Question

7. Two sticks measure  $1/4$  metre each.  
What is their total length in fraction form? \_\_\_\_\_

### Difficulty Level

 Moderate – Focus on understanding units and comparison.

## Section 4: Fractions on the Number Line

(NCERT Class 6 Maths – Chapter 7, Ex 7.4 aligned)

### Instructions for Students

Look at the number line carefully.

Make sure the line is divided into equal parts before marking fractions.

### Question Type 1: Mark Fractions on the Number Line

1. Draw a number line from 0 to 1 and mark  $1/2$  on it.
2. Mark  $3/4$  on a number line between 0 and 1.
3. Show  $2/3$  on a number line using equal divisions.

### Question Type 2: Find the Missing Fraction

4. On a number line divided into 4 equal parts, the first mark after 0 is  $1/4$ .  
What fraction is the second mark? \_\_\_\_\_
5. Between 0 and 1, which fraction lies between  $1/4$  and  $3/4$ ? \_\_\_\_\_

### Question Type 3: Ordering Fractions on the Number Line

6. Arrange the following fractions on a number line in ascending order:  
 $1/3, 2/3, 1/6$
7. Arrange the following fractions in descending order:  
 $1/2, 3/4, 1/4$

### Difficulty Level

 Moderate – Focus on equal spacing and correct position.

## Section 5: Mixed & Improper Fractions

(NCERT Class 6 Maths – Chapter 7, Ex 7.5 aligned)

### Instructions for Students

Read the fraction carefully.

Write each step neatly while converting.

### Question Type 1: Convert Mixed Fractions into Improper Fractions

1. Convert  $2\frac{1}{2}$  into an improper fraction. \_\_\_\_\_
2. Write  $3\frac{1}{3}$  as an improper fraction. \_\_\_\_\_
3. Convert  $4\frac{1}{4}$  into an improper fraction. \_\_\_\_\_
4. Change  $1\frac{2}{3}$  into an improper fraction. \_\_\_\_\_
5. Convert  $5\frac{2}{5}$  into an improper fraction. \_\_\_\_\_

### Question Type 2: Convert Improper Fractions into Mixed Fractions

6. Convert  $\frac{7}{3}$  into a mixed fraction. \_\_\_\_\_
7. Write  $\frac{11}{4}$  as a mixed fraction. \_\_\_\_\_
8. Convert  $\frac{9}{2}$  into a mixed fraction. \_\_\_\_\_
9. Change  $\frac{13}{5}$  into a mixed fraction. \_\_\_\_\_
10. Convert  $\frac{8}{3}$  into a mixed fraction. \_\_\_\_\_

### Difficulty Level

 Moderate – Focus on correct steps and neat working

## Section 6: Equivalent Fractions

(NCERT Class 6 Maths – Chapter 7, Ex 7.6 aligned)

### Instructions for Students

Remember, equivalent fractions have the same value.

Multiply or divide the numerator and denominator by the same number.

### Question Type 1: Find Equivalent Fractions

1. Write one equivalent fraction for  $\frac{1}{2}$ . \_\_\_\_\_
2. Find an equivalent fraction of  $\frac{2}{5}$  by multiplying by 2. \_\_\_\_\_
3. Write two equivalent fractions for  $\frac{3}{4}$ . \_\_\_\_\_, \_\_\_\_\_
4. Find an equivalent fraction for  $\frac{4}{6}$ . \_\_\_\_\_

### Question Type 2: Fill in the Blanks

5. Complete the fraction:

$$3/5 = \underline{\quad} / 10$$

6. Fill in the missing number:

$$2/7 = 4 / \underline{\quad}$$

7. Complete:

$$5/8 = \underline{\quad} / 16$$

### Question Type 3: True or False

8.  $6/9 = 2/3$  (True / False)

9.  $3/6$  and  $1/2$  are equivalent fractions (True / False)

10.  $2/4$  is greater than  $1/2$  (True / False)

### Difficulty Level



Moderate – Focus on method, not guessing.

## Section 7: Comparing Fractions

(NCERT Class 6 Maths – Chapter 7, Ex 7.7 aligned)

### Instructions for Students

Read the fractions carefully.

Check the denominator first before comparing.

### Question Type 1: Greater Than / Less Than

1. Compare using  $>$ ,  $<$  or  $=$

$$3/7 \underline{\quad} 5/7$$

2. Which is greater:

$$2/5 \text{ or } 4/5? \underline{\quad}$$

3. Compare:

$$1/4 \underline{\quad} 1/6$$

### Question Type 2: Ordering Fractions

4. Arrange the following fractions in ascending order:

$$3/8, 1/8, 5/8$$

5. Arrange the following fractions in descending order:  
 $1/2, 1/3, 1/4$

### Question Type 3: Reason-Based Comparison

6. Which is smaller,  $2/3$  or  $3/4$ ?  
Write one reason. \_\_\_\_\_

7. Which fraction is closer to 1,  $5/6$  or  $4/6$ ?  
Explain your answer. \_\_\_\_\_

### Difficulty Level

 Moderate – Focus on reasoning, not shortcuts

## Section 8: Addition & Subtraction of Fractions

(NCERT Class 6 Maths – Chapter 7, Ex 7.8 aligned)

### Instructions for Students

Check whether the fractions have the same denominator before solving.  
Write each step neatly and do not skip steps.

### Sub-Section A: Like Denominators

1. Add:  
 $2/7 + 3/7 =$  \_\_\_\_\_
2. Find the sum:  
 $1/5 + 2/5 =$  \_\_\_\_\_
3. Subtract:  
 $5/8 - 3/8 =$  \_\_\_\_\_
4. Find the difference:  
 $7/10 - 2/10 =$  \_\_\_\_\_
5. Add:  
 $4/9 + 3/9 =$  \_\_\_\_\_

### Sub-Section B: Simple Word Problems

6. Riya ate  $2/6$  of a chocolate in the morning and  $1/6$  in the evening.  
What fraction of the chocolate did she eat in total? \_\_\_\_\_

7. A rope is  $6/8$  metre long.  
If  $2/8$  metre is cut, how much rope is left? \_\_\_\_\_
  
8. Aman read  $3/7$  of a book on Monday and  $2/7$  on Tuesday.  
How much of the book did he read altogether? \_\_\_\_\_
  
9. A cake is divided into 10 equal pieces.  
If 4 pieces are eaten, what fraction remains? \_\_\_\_\_

### Difficulty Level

 Moderate – Focus on correct steps and neat working

## Section 9: Fraction Word Problems

(Application Based)

### Instructions for Students

Read the question carefully.

Underline important numbers before solving.

### Question Type 1: Daily-Life Situations

1. Riya drank  $3/5$  of a bottle of juice in the morning.  
How much juice is left in the bottle? \_\_\_\_\_
  
2. A rope is  $7/8$  metre long.  
If  $3/8$  metre is cut, how much rope remains? \_\_\_\_\_
  
3. Meena read  $2/6$  of a book in the morning and  $1/6$  in the evening.  
What fraction of the book did she read in total? \_\_\_\_\_

### Question Type 2: Multi-Step Problems

4. A cake is divided into 12 equal pieces.  
Aman ate 5 pieces and Riya ate 3 pieces.  
What fraction of the cake was eaten in total? \_\_\_\_\_
  
5. A water tank is filled up to  $4/6$  part.  
Later,  $1/6$  part of water is used.  
How much water is left in the tank? \_\_\_\_\_
  
6. Sita walks  $1/4$  km in the morning and  $2/4$  km in the evening.  
What is the total distance she walks in a day? \_\_\_\_\_

### Thinking Question

7. A chocolate bar is divided into 10 equal parts.  
If  $2/10$  is eaten in the morning and  $3/10$  in the evening,  
how much chocolate is left? \_\_\_\_\_

## Difficulty Level

 Moderate – Focus on understanding the situation and steps

# Full Chapter Practice Test – Fractions

(Class 6 Maths | NCERT Chapter 7)

## Instructions for Students

- Attempt all questions
- Show steps where required
- Do not rush; read each question carefully

Time Suggested: 40 minutes

## Section A: Basic Concepts

1. A circle is divided into 8 equal parts.  
Write the fraction for 3 shaded parts. \_\_\_\_\_
2. Write the numerator and denominator of  $5/9$ .  
Numerator: \_\_\_\_\_ Denominator: \_\_\_\_\_

## Section B: Fractions on Number Line

3. Mark  $1/2$  on a number line from 0 to 1.
4. Arrange the following fractions in ascending order:  
 $1/4, 3/4, 2/4$

## Section C: Mixed & Equivalent Fractions

5. Convert  $3\frac{1}{2}$  into an improper fraction. \_\_\_\_\_
6. Write one equivalent fraction of  $2/3$ . \_\_\_\_\_
7. Check whether  $6/8$  and  $3/4$  are equivalent.  
Write Yes / No with reason. \_\_\_\_\_

## Section D: Comparing Fractions

8. Compare using  $>$ ,  $<$  or  $=$

$2/5$  \_\_\_\_  $4/5$

9. Which fraction is greater,  $3/4$  or  $2/3$ ?

Give one reason. \_\_\_\_\_

## Section E: Addition & Subtraction

10. Add:

$3/7 + 2/7 =$  \_\_\_\_\_

11. Subtract:

$5/6 - 1/6 =$  \_\_\_\_\_

## Section F: Word Problems

12. Riya ate  $2/6$  of a chocolate in the morning and  $3/6$  in the evening.

What fraction of the chocolate did she eat in total? \_\_\_\_\_

13. A rope is  $7/8$  metre long.

If  $3/8$  metre is cut, how much rope is left? \_\_\_\_\_

14. A pizza is cut into 10 equal slices.

If 4 slices are eaten, what fraction remains? \_\_\_\_\_

## Section G: Application & Thinking

15. Simplify the fraction  $6/12$ . \_\_\_\_\_

16. Draw a number line and show  $3/4$  on it.

17. Convert  $9/3$  into a whole number. \_\_\_\_\_

18. Write one mistake students often make while adding fractions. \_\_\_\_\_

## Difficulty Level

 Balanced – Easy to Moderate (Exam-Oriented)

 Parent Tip:

Let the child attempt this test without help first.

Check steps calmly and revise weak areas after the test.

# Answer Key – Fractions

## Section 1: Equal Sharing & Fraction Basics

1.  $1/4$
2.  $2/6$
3.  $1/3$
4.  $3/5$
5.  $1/2$
6.  $1/8$
7.  $1/10$
8.  $4/4 = 1$
9. No (parts must be equal)

## Section 2: Fractions as Parts of a Whole

1.  $3/8$
2. The whole shape
3.  $1/6$
4. Numerator = 5, Denominator = 9
5. 10
6.  $3/7$
7.  $12/12$
8.  $4/9$
9. No (unequal parts)

## Section 3: Measuring Using Fractional Units

1.  $1/4$

2.  $3/4$
3.  $2/6$
4.  $1/2$  metre
5.  $3/4 > 2/4$
6.  $5/6$  metre
7.  $2/4 = 1/2$  metre

## Section 4: Fractions on the Number Line

1.  $1/2$  marked at middle
2.  $3/4$  marked between  $1/2$  and 1
3.  $2/3$  between 0 and 1
4.  $2/4$
5.  $1/2$
6.  $1/6, 1/3, 2/3$
7.  $3/4, 1/2, 1/4$

## Section 5: Mixed & Improper Fractions

1.  $2\frac{1}{2} = 5/2$
2.  $3\frac{1}{3} = 10/3$
3.  $4\frac{1}{4} = 17/4$
4.  $1\frac{2}{3} = 5/3$
5.  $5\frac{2}{5} = 27/5$
6.  $7/3 = 2\frac{1}{3}$
7.  $11/4 = 2\frac{3}{4}$
8.  $9/2 = 4\frac{1}{2}$

9.  $13/5 = 2\frac{3}{5}$

10.  $8/3 = 2\frac{2}{3}$

## Section 6: Equivalent Fractions

1.  $2/4$

2.  $4/10$

3.  $6/8, 9/12$

4.  $2/3$

5.  $6/10$

6.  $14$

7.  $10/16$

8. True

9. True

10. False

## Section 7: Comparing Fractions

1.  $3/7 < 5/7$

2.  $4/5$

3.  $1/4 > 1/6$

4.  $1/8, 3/8, 5/8$

5.  $1/2, 1/3, 1/4$

6.  $2/3$  (closer to 1)

7.  $5/6$  (larger numerator)

## Section 8: Addition & Subtraction

1.  $2/7 + 3/7 = 5/7$

2.  $1/5 + 2/5 = 3/5$
3.  $5/8 - 3/8 = 2/8$
4.  $7/10 - 2/10 = 5/10$
5.  $4/9 + 3/9 = 7/9$
6.  $3/6 = 1/2$
7.  $4/8$
8.  $5/7$
9.  $6/10$

## Section 9: Fraction Word Problems

1.  $2/5$
2.  $4/8$
3.  $3/6$
4.  $8/12$
5.  $3/6$
6.  $3/4$
7.  $5/10$

## Full Chapter Practice Test – Answers

1.  $3/8$
2. 5 and 9
3. Middle of 0 and 1
4.  $1/4, 2/4, 3/4$
5.  $7/2$
6.  $4/6$

7. Yes
8.  $2/5 < 4/5$
9.  $3/4$
10.  $5/7$
11.  $4/6$
12.  $5/6$
13.  $4/8$
14.  $6/10$
15.  $1/2$
16. Correct placement
17. 3
18. Adding denominators

👉 Parent Note (Optional Page Footer)  
Focus on steps. Small mistakes are part of learning.

## Common Mistakes in Fractions

(Read Before or After Practice)

Understanding common mistakes helps students improve faster and avoid repeating errors in exams.

### ✗ Mistake 1: Adding or Subtracting Denominators

Wrong method:

$$1/4 + 1/4 = 2/8 \text{ ✗}$$

Correct idea:

When denominators are same, add or subtract only the numerators.

$$1/4 + 1/4 = 2/4 \text{ ✓}$$

### ✗ Mistake 2: Wrong Conversion of Mixed Fractions

Wrong method:

$$2\frac{1}{2} = 2 + 1/2 \text{ X}$$

Correct idea:

Multiply the whole number with the denominator, then add the numerator.

$$2\frac{1}{2} = (2 \times 2 + 1) / 2 = 5/2 \text{ ✓}$$

## Mistake 3: Unequal Parts on Number Line

Wrong approach:

Marking fractions without equal spacing 

Correct idea:

Always divide the number line into equal parts first, then mark the fraction.

Equal spacing is more important than speed 

## Mistake 4: Not Simplifying Fractions

Example:

$6/12$  left as it is 

Correct idea:

Simplify whenever possible.

$$6/12 = 1/2 \text{ ✓}$$

## Mistake 5: Guessing Instead of Explaining

Writing an answer without knowing why often leads to errors.

Explanation shows real understanding.

### Parent Tip Box

- Ask your child to explain each step aloud
- Focus on how the answer is written, not just correctness
- Do not scold for mistakes — use them as learning points
- Encourage slow and neat work

 A child who understands mistakes learns faster than one who memorises answers.

Keep Going, You're Learning 

## A Note for Students

Maths becomes easier when you practice regularly and stay patient.  
Do not worry about mistakes — they are part of learning.

Take one question at a time.  
Understand the steps.  
Explain your thinking in your own words.

Every small effort you make today helps you become more confident tomorrow.

“Practice slowly. Understand clearly. You will improve.”

## Remember

- Speed will come with practice
- Understanding is more important than marks
- Asking questions is a good habit

Believe in yourself and keep practising.

Shiksha Nation