

Class 4 Fractions Worksheet with Answers

Thinking Juggernaut

Name: _____

Date: _____

Total Marks: 24

🎯 Understanding Fractions

What is a Fraction?

A fraction represents a part of a whole. When we divide something into equal parts, each part is a fraction of the whole.

Parts of a Fraction:

- **Numerator** - The top number (shows how many parts we have)
- **Denominator** - The bottom number (shows total equal parts)

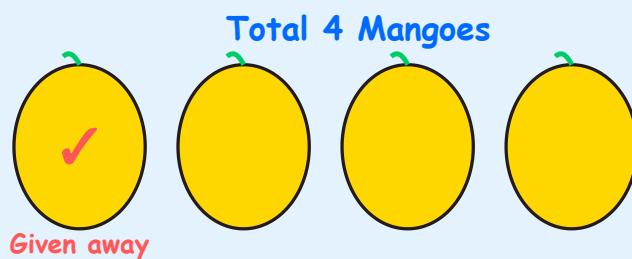
Example: $\frac{1}{2}$ means 1 part out of 2 equal parts (one-half)

Common Fractions:

- **One-half:** $1/2$ (1 part of 2)
- **One-third:** $1/3$ (1 part of 3)
- **One-fourth:** $1/4$ (1 part of 4)

📝 Sample Problem

Problem: Rahul has 4 mangoes. He gives 1 mango to his friend. What fraction of mangoes did he give away? What fraction does he have left?



Solution:

Total mangoes = 4

Mangoes given away = 1

Fraction given away = $\frac{1}{4}$ (one-fourth)

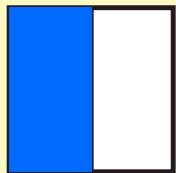
Mangoes left = $4 - 1 = 3$

Fraction left = $\frac{3}{4}$ (three-fourths)

Answer: Rahul gave $1/4$ of the mangoes. He has $3/4$ left! 

Part A: Warm-up Questions Easy Level

1. What fraction of the square is shaded?



Answer: _____

2. Write the fraction for "one-third": _____

3. In the fraction $3/5$, which number is the numerator?

Answer: _____

4. Color $1/4$ of the circles below:



How many circles should you color? _____

5. True or False: $1/2$ means one part out of two equal parts.

- True
- False

6. What fraction of the rectangle is colored?



Answer: _____

7. Match the fractions with their names:

| Column A | Column B |
|----------|----------------|
| a) $1/2$ | i) One-fourth |
| b) $1/4$ | ii) One-half |
| c) $1/3$ | iii) One-third |

Write your answers: a-____, b-____, c-____

8. Fill in the blank: In $2/7$, the denominator is ____.

THINKING

Part B: Practice Questions

★★ Medium Level

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9. Sita has a ribbon 12 cm long. She cuts it into 3 equal parts. What is the length of each part?

Part 1

Part 2

Part 3

Each part = ____ cm

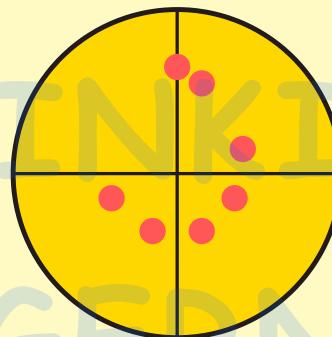
10. Which is larger: $1/2$ or $1/4$? Draw circles to show your answer.

Larger fraction: _____

11. A chocolate bar has 8 pieces. Amit ate 2 pieces. What fraction did he eat?

Answer: _____

12. Look at the pizza. What fraction has no toppings?



Total slices = 4

Answer: _____

13. Write three-fourths as a fraction: _____

14. True or False: $2/3$ means 2 parts out of 3 equal parts.

- True
- False

15. A garden is divided into 5 equal parts. 2 parts have roses. What fraction has roses?



Answer: _____

16. Arrange in order from smallest to largest: $1/2$, $1/4$, $1/3$

_____ < _____ < _____ **THINKING**

17. A cake is cut into 6 equal slices. Priya ate 1 slice. What fraction is left?

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Fraction left: _____

18. Shade $2/3$ of the stars:



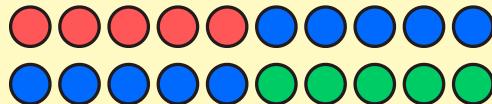
How many stars should you shade? _____

Part C: Challenge Questions

★★★ Hard Level

19. Ravi has 20 marbles. $1/4$ of them are red. How many red marbles does he have?

Total 20 Marbles



Red marbles = _____

20. A class has 24 students. $1/3$ are wearing blue shirts. How many are wearing blue shirts?

Blue shirts = _____

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21. Look at the fruits. What fraction are apples?



Total fruits = 5

Apples = _____, Total fruits = _____, Fraction = _____

22. A parking lot has 16 cars. $1/2$ are white. How many cars are white?

White cars = _____

23. Meera walked $1/4$ of the way to school which is 2 km. How far is her school from home?

 Home School

$1/4 = 2 \text{ km}$

$1/4 = ?$

$1/4 = ?$

$1/4 = ?$

Total distance = _____ km

24. A book has 40 pages. Anjali has read $1/5$ of the book. How many pages has she read? How many pages are left?

Pages read = _____

Pages left = _____



Answer Key

Part A: Warm-up Questions

1. $1/2$ (one-half of the square is shaded)

2. $1/3$

3. 3 (the numerator is the top number)

4. 1 circle ($1/4$ of 4 circles = 1 circle)

5. True

6. $\frac{1}{3}$ (1 part out of 3 parts is colored)

7. a-ii (one-half), b-i (one-fourth), c-iii (one-third)

8. 7 (the denominator is the bottom number)

Part B: Practice Questions

9. 4 cm ($12 \div 3 = 4$ cm per part)

10. $\frac{1}{2}$ is larger ($\frac{1}{2} = \frac{2}{4}$, which is bigger than $\frac{1}{4}$)

11. $\frac{2}{8}$ or $\frac{1}{4}$ (2 pieces out of 8 total)

12. $\frac{1}{4}$ (1 slice out of 4 has no toppings)

13. $\frac{3}{4}$

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14. True

15. $\frac{2}{5}$ (2 parts out of 5 have roses)

16. $\frac{1}{4} < \frac{1}{3} < \frac{1}{2}$ (smaller denominator = larger fraction)

17. $\frac{5}{6}$ ($6 - 1 = 5$ slices left out of 6)

18. 2 stars ($\frac{2}{3}$ of 3 stars = 2 stars)

Part C: Challenge Questions

19. 5 red marbles ($\frac{1}{4}$ of 20 = $20 \div 4 = 5$)

20. 8 students ($\frac{1}{3}$ of 24 = $24 \div 3 = 8$)

21. Apples = 3, Total = 5, Fraction = $\frac{3}{5}$

22. 8 white cars ($\frac{1}{2}$ of 16 = $16 \div 2 = 8$)

23. 8 km (if $\frac{1}{4} = 2$ km, then $\frac{4}{4} = 2 \times 4 = 8$ km)

24. Pages read = 8 (1/5 of 40 = 8), Pages left = 32 (40 - 8 = 32)

📊 Scoring Guide & Next Steps

Total Questions: 24 | Total Marks: 24

| Score Range | Performance Level | What to Practice Next |
|-------------|-------------------|---|
| 20-24 | ★★★ Excellent! | You're ready for: <ul style="list-style-type: none"> Adding fractions with same denominators ($2/5 + 1/5$) Subtracting simple fractions ($3/4 - 1/4$) Converting improper fractions to mixed numbers Class 5 fraction worksheets |
| 15-19 | ★★ Very Good! | Focus on: <ul style="list-style-type: none"> Finding fractions of larger numbers ($1/4$ of 20, $1/3$ of 30) Comparing fractions with different denominators Practice more word problems with real-life objects Review questions you got wrong and try similar problems |
| 10-14 | ★ Good Effort! | Practice these skills: <ul style="list-style-type: none"> Draw pictures to represent fractions (circles, rectangles) Practice identifying numerator and denominator daily Work on comparing simple fractions ($1/2, 1/3, 1/4$) Do 5 basic fraction problems every day for 2 weeks Use real objects: cut fruits, share chocolates with family |
| 0-9 | Keep Trying! | Start with basics: <ul style="list-style-type: none"> Understand "part of a whole" concept using pizza/cake pictures Practice reading fractions aloud ($1/2$ = one-half) Learn to identify top number (numerator) and bottom number (denominator) Practice only $1/2, 1/3, 1/4$ for one week with visual aids Ask your teacher/parent to explain using real objects Watch fraction videos for kids (ask parent for help) |



Detailed Learning Path by Topic

If you struggled with Questions 1-8 (Basic Identification):

-  Draw and color 10 different fractions on paper ($1/2, 1/3, 1/4, 2/3, 3/4$)
-  Cut paper circles into 2, 3, 4 parts and label each part
-  Practice writing fraction names in words and numbers
-  Play "Fraction Matching" - match fraction numbers to pictures

If you struggled with Questions 9-18 (Comparing & Understanding):

-  Practice comparing fractions using pictures - draw two fractions and see which is bigger
-  Use a ruler to divide ribbons/strings into equal parts
-  Share chocolates/biscuits with family to understand "parts of a whole"
-  Do 5 word problems daily using objects around you (books, pencils, fruits)
-  Remember: In fractions like $1/2, 1/3, 1/4$ - smaller bottom number = BIGGER fraction

If you struggled with Questions 19-24 (Challenge Problems):

-  Practice finding fractions of numbers: $1/2$ of 10, $1/3$ of 12, $1/4$ of 20
-  Create a fraction chart showing $1/2, 1/3, 1/4, 1/5$ of numbers 10, 12, 15, 20
-  Remember the trick: " $1/4$ of 20" means divide 20 by 4
-  Solve real-life problems: "If I have 30 marbles and give $1/3$ to my friend..."
-  Master division facts ($\div 2, \div 3, \div 4, \div 5$) as they help with fractions

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★ Great Job Completing This Worksheet! ★

Practice makes perfect! Keep working with fractions daily.

-  Download more worksheets at thinkingjuggernaut.in
-  Share your score with your teacher or parents!



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