Class 5 Fractions Worksheet with Answers

Thinking Juggernaut

Name: _____ Date: _____ Total Marks: 24

🎯 What are Fractions?

A fraction represents a part of a whole.

Every fraction has two parts:

- **Numerator** - The number on top (tells how many parts we have)
- **Denominator** - The number on bottom (tells how many equal parts the whole is divided into)

For example: $\frac{3}{4}$ means we have 3 parts out of 4 equal parts.

Types of Fractions:

- **Proper Fraction:** Numerator < Denominator (e.g., 2/5)
- **Improper Fraction:** Numerator ≥ Denominator (e.g., 7/4)
- **Mixed Number:** Whole number + Proper fraction (e.g., $1\frac{3}{4}$)

📝 Sample Problem

Problem: Priya has a chocolate bar divided into 8 equal pieces. She ate 3 pieces. What fraction of the chocolate did she eat? What fraction is left?

8 equal pieces | 3 eaten (X) | 5 remaining

Solution:

Total pieces = 8

Pieces eaten = 3

Fraction eaten = $\frac{3}{8}$

Pieces remaining = 8 - 3 = 5

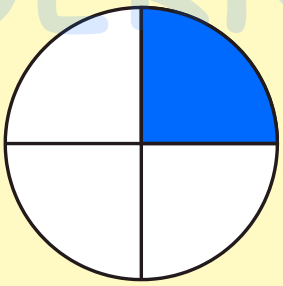
Fraction remaining = $\frac{5}{8}$

Answer: Priya ate 3/8 of the chocolate. 5/8 is left! 🍫

Part A: Warm-up Questions

⭐ Easy Level

1. What fraction of the circle is shaded?



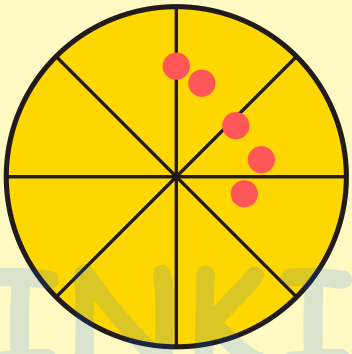
Answer: _____

2. Fill in the blank: In the fraction 5/7, the numerator is _____ and the denominator is _____.

3. True or False: 3/8 is a proper fraction.

○ True ○ False

4. Look at the pizza. What fraction has pepperoni?



Red circles = pepperoni | Pizza has 8 equal slices

Answer: _____

5. Convert the improper fraction to a mixed number: 11/4 = _____

6. Write the fraction: "Two-fifths" = _____

7. Which is larger? Circle the correct answer.

1/2 OR 1/4

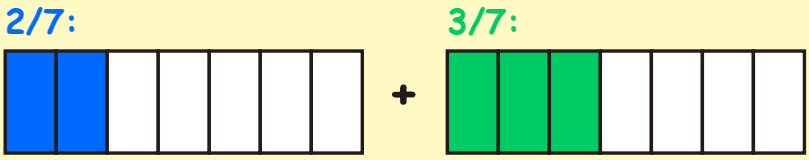
8. Complete: $2\frac{1}{4}$ = _____ (as an improper fraction)

Part B: Practice Questions

☆☆ Medium Level

9. Simplify the fraction to its lowest form: 12/16 = _____

10. Add the fractions: 2/7 + 3/7 = _____



11. Match Column A with Column B:

Column A	Column B
a) 1/2 of 10	i) 4
b) 1/3 of 12	ii) 5
c) 1/4 of 16	iii) 6

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

12. Ravi ate 3/8 of a cake. What fraction of the cake is left?

13. Subtract: 5/6 - 2/6 = _____

14. Look at the ribbon. What fraction is green?

Green = _____, Yellow = _____, Total parts = _____

Fraction that is green: _____

15. True or False: 4/5 > 3/5

○ True ○ False

16. A water tank can hold 40 litres. It currently has 25 litres. What fraction of the tank is full?

17. Arrange in ascending order: 1/3, 1/6, 1/2

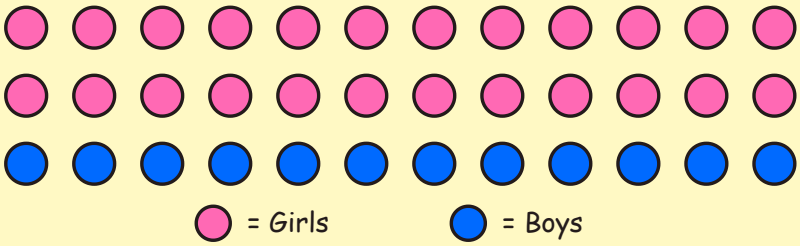
____ < ____ < ____

18. Convert to improper fraction: $3\frac{2}{5}$ = ____

Part C: Challenge Questions

☆☆☆ Hard Level

19. In a class of 36 students, 2/3 are girls. How many boys are there?



Girls: _____
Boys: _____

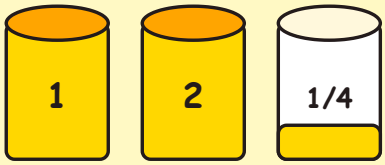
20. Add: 1/4 + 1/3 = _____

Hint: Find common denominator first

21. Neha walked 3/5 km to school and 2/5 km to the library. How far did she walk in total? Express as a mixed number if needed.

22. A recipe needs $2\frac{1}{4}$ cups of flour. If you want to make half the recipe, how much flour do you need?

Original Recipe: $2\frac{1}{4}$ cups



Half of this = ?

23. Subtract: 5/6 - 1/4 = _____

Common denominator: ____

24. A shopkeeper sold 3/8 of his fruits in the morning and 1/4 in the evening. What fraction of fruits did he sell in total? What fraction remains unsold?

Fraction sold: _____
Fraction unsold: _____

🔑 Answer Key

Part A: Warm-up Questions

1. 1/4 (one-fourth of the circle is shaded)
2. Numerator = 5, Denominator = 7
3. True (numerator 3 < denominator 8)
4. 3/8 (3 slices have pepperoni out of 8 total slices)
5. $2\frac{3}{4}$ or 2 3/4
6. 2/5
7. 1/2 is larger (1/2 = 2/4 > 1/4)
8. 9/4

Part B: Practice Questions

9. 3/4 (divide both by 4)
10. 5/7
11. a-ii (5), b-iii (6), c-i (4)
12. 5/8 (1 - 3/8 = 5/8)
13. 3/6 or 1/2
14. 4/10 or 2/5 (4 green, 6 yellow, 10 total)
15. True (4/5 is greater than 3/5)

16. 25/40 or 5/8

17. 1/6 < 1/3 < 1/2

18. 17/5 (3 × 5 + 2 = 17)

Part C: Challenge Questions

19. Girls: 24, Boys: 12 (2/3 of 36 = 24, remaining = 12)

20. 7/12 (LCD = 12; 3/12 + 4/12 = 7/12)

21. 1 km or 5/5 (3/5 + 2/5 = 5/5 = 1)

22. $1\frac{1}{8}$ cups (half of $2\frac{1}{4}$ = half of 9/4 = 9/8 = $1\frac{1}{8}$)

23. 7/12 (LCD = 12; 10/12 - 3/12 = 7/12)

24. Sold: 5/8 (3/8 + 2/8 = 5/8), Unsold: 3/8

📊 Scoring Guide

Total Questions: 24 | Total Marks: 24

Score Range	Performance Level	What to Do Next
20-24	⭐⭐⭐ Excellent!	You're a fractions expert! Try harder mixed fraction problems.
15-19	⭐⭐ Very Good!	Great work! Practice adding/subtracting with different denominators.
10-14	⭐ Good Effort!	Keep practicing! Focus on simplifying and finding common denominators.
0-9	Keep Trying!	Don't worry! Review the concepts and practice basic fractions daily.

📝 Tips for Improvement:

- Always simplify your answers to the lowest terms
- When adding/subtracting fractions, find the common denominator first
- To convert mixed to improper: multiply whole number by denominator, then add numerator
- To convert improper to mixed: divide numerator by denominator
- Practice with real objects like pizzas, chocolates, or ribbons to visualize fractions

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✨ **Great Job Completing This Worksheet!** ✨

Keep practicing fractions and you'll master them in no time!

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