

Grade 4 Fractions

Worksheet Pack

Equivalent Fractions • Comparing • Operations • Word Problems

Skills Covered

- Fraction models and fraction meaning
- Equivalent and simplest-form fractions
- Comparing and ordering fractions
- Improper fractions and mixed numbers
- Adding and subtracting like fractions
- Fractions of quantities
- Reasoning and real-life fraction problems

Name: _____

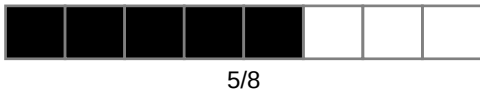
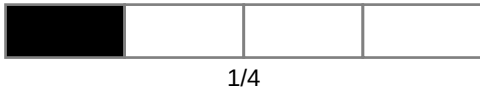
Date: _____

Teacher / Class: _____

Worksheet 1 • Understanding & Equivalent Fractions

Grade 4 Mathematics

A. Read the Fraction Models



1. Write the fraction shown by each model above.
2. Which model shows the greatest fraction? _____

B. Complete the Equivalent Fractions

$$\frac{1}{2} = \frac{\quad}{8}$$

$$\frac{2}{3} = \frac{\quad}{12}$$

$$\frac{3}{4} = \frac{\quad}{20}$$

$$\frac{2}{5} = \frac{\quad}{15}$$

$$\frac{4}{6} = \frac{\quad}{12}$$

$$\frac{3}{8} = \frac{\quad}{16}$$

Worksheet 2 • Simplifying & Comparing

Grade 4 Mathematics

A. Simplify

1. $\frac{2}{4} =$ _____

2. $\frac{6}{8} =$ _____

3. $\frac{9}{12} =$ _____

4. $\frac{10}{15} =$ _____

5. $\frac{12}{18} =$ _____

6. $\frac{15}{20} =$ _____

B. Compare using <, > or =

1. $\frac{3}{4}$ ____ $\frac{2}{4}$

2. $\frac{2}{3}$ ____ $\frac{3}{6}$

3. $\frac{5}{8}$ ____ $\frac{6}{8}$

4. $\frac{4}{5}$ ____ $\frac{7}{10}$

5. $\frac{3}{6}$ ____ $\frac{1}{2}$

6. $\frac{7}{8}$ ____ $\frac{5}{8}$

Worksheet 3 • Ordering Fractions

Grade 4 Mathematics

A. Order from Smallest to Largest

1. $\frac{1}{4}$, $\frac{3}{4}$, $\frac{2}{4}$: _____

2. $\frac{2}{5}$, $\frac{4}{5}$, $\frac{1}{5}$: _____

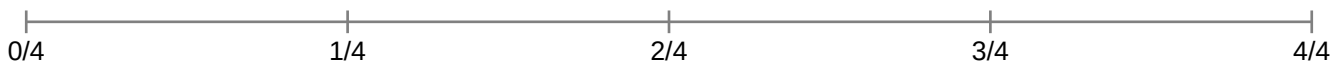
3. $\frac{3}{8}$, $\frac{7}{8}$, $\frac{5}{8}$: _____

4. $\frac{1}{2}$, $\frac{1}{4}$, $\frac{3}{4}$: _____

5. $\frac{2}{3}$, $\frac{1}{3}$, $\frac{5}{6}$: _____

B. Fraction Number Line

Place $\frac{1}{4}$, $\frac{1}{2}$ and $\frac{3}{4}$ on the number line.



Which fraction is exactly halfway between 0 and 1? _____

Which is closer to 1: $\frac{3}{4}$ or $\frac{1}{2}$? _____

Worksheet 4 • Improper Fractions & Mixed Numbers

Grade 4 Mathematics

A. Convert to Mixed Numbers

$$5/2 = \underline{\hspace{2cm}}$$

$$7/3 = \underline{\hspace{2cm}}$$

$$9/4 = \underline{\hspace{2cm}}$$

$11/5 = \underline{\hspace{2cm}}$

$$13/6 = \underline{\hspace{2cm}}$$

$$17/4 = \underline{\hspace{2cm}}$$

B. Convert to Improper Fractions

$2 \frac{1}{3} = \underline{\hspace{2cm}}$

$$3 \frac{1}{4} = \underline{\hspace{2cm}}$$

$1 \frac{4}{5} = \underline{\hspace{2cm}}$

$2 \frac{3}{7} = \underline{\hspace{2cm}}$

$4 \frac{1}{2} = \underline{\hspace{2cm}}$

$3 \frac{2}{5} = \underline{\hspace{2cm}}$

C. Think

Which is greater: $\frac{7}{4}$ or $1\frac{1}{2}$? Explain: _____

Write $2\frac{2}{3}$ as an improper fraction: _____

Worksheet 5 • Add & Subtract Like Fractions

Grade 4 Mathematics

A. Add

$$1/5 + 2/5 = \underline{\hspace{2cm}}$$

$$3/8 + 2/8 = \underline{\hspace{2cm}}$$

$$4/7 + 1/7 = \underline{\hspace{2cm}}$$

$$2/9 + 5/9 = \underline{\hspace{2cm}}$$

$$3/10 + 4/10 = \underline{\hspace{2cm}}$$

$$5/12 + 2/12 = \underline{\hspace{2cm}}$$

B. Subtract

$$7/8 - 3/8 = \underline{\hspace{2cm}}$$

$$6/7 - 2/7 = \underline{\hspace{2cm}}$$

$$9/10 - 4/10 = \underline{\hspace{2cm}}$$

$$8/9 - 5/9 = \underline{\hspace{2cm}}$$

$$11/12 - 3/12 = \underline{\hspace{2cm}}$$

$$7/10 - 2/10 = \underline{\hspace{2cm}}$$

C. Mixed

Which is greater: $3/8 + 2/8$ or $6/8$? $\underline{\hspace{2cm}}$

Is $7/9 - 2/9$ equal to $5/9$? $\underline{\hspace{2cm}}$

Worksheet 6 • Fractions of Quantities & Word Problems

Grade 4 Mathematics

A. Find the Fraction of Each Quantity

$1/2 \text{ of } 24 = \underline{\hspace{2cm}}$

$1/3 \text{ of } 27 = \underline{\hspace{2cm}}$

$1/4 \text{ of } 32 = \underline{\hspace{2cm}}$

$2/5 \text{ of } 30 = \underline{\hspace{2cm}}$

$3/4 \text{ of } 28 = \underline{\hspace{2cm}}$

$2/3 \text{ of } 36 = \underline{\hspace{2cm}}$

$3/5 \text{ of } 40 = \underline{\hspace{2cm}}$

$5/6 \text{ of } 42 = \underline{\hspace{2cm}}$

B. Word Problems

1. A box has 24 crayons. $3/4$ are blue. How many are blue?

2. Riya reads $2/5$ of a 30-page book. How many pages does she read?

3. A class has 36 students. $1/3$ bring lunch from home. How many students?

4. A basket has 40 apples. $3/5$ are red. How many red apples?

Worksheet 7 • Mixed Fractions Challenge

Grade 4 Mathematics

A. Challenge

1. Write an equivalent fraction for $\frac{5}{6}$ with denominator 18: _____
2. Which is greater: $\frac{5}{6}$ or $\frac{7}{9}$? _____
3. Simplify $\frac{16}{24}$: _____
4. Convert $\frac{9}{4}$ to a mixed number: _____
5. Convert $2\frac{2}{5}$ to an improper fraction: _____
6. $\frac{3}{8} + \frac{4}{8} =$ _____
7. $\frac{7}{10} - \frac{3}{10} =$ _____

B. Reasoning

1. A pizza is cut into 8 equal slices. 5 are eaten. What fraction remains?

2. Can $\frac{3}{4}$ and $\frac{6}{8}$ represent the same amount? Explain.

3. A recipe needs $\frac{3}{4}$ cup of milk. You make half the recipe. How much milk?

Answer Key • Grade 4 Fractions

Grade 4 Mathematics

Worksheet 1

- | | |
|---|--------------------|
| 1. $\frac{1}{4}$, $\frac{3}{6}$, $\frac{5}{8}$, $\frac{7}{10}$ | 5. $\frac{15}{20}$ |
| 2. $\frac{7}{10}$ | 6. $\frac{6}{15}$ |
| 3. $\frac{4}{8}$ | 7. $\frac{8}{12}$ |
| 4. $\frac{8}{12}$ | 8. $\frac{6}{16}$ |

Worksheet 2

- | | |
|------------------|----------------------------------|
| 1. $\frac{1}{2}$ | 7. $\frac{3}{4} > \frac{2}{4}$ |
| 2. $\frac{3}{4}$ | 8. $\frac{2}{3} > \frac{3}{6}$ |
| 3. $\frac{3}{4}$ | 9. $\frac{5}{8} < \frac{6}{8}$ |
| 4. $\frac{2}{3}$ | 10. $\frac{4}{5} > \frac{7}{10}$ |
| 5. $\frac{2}{3}$ | 11. $\frac{3}{6} = \frac{1}{2}$ |
| 6. $\frac{3}{4}$ | 12. $\frac{7}{8} > \frac{5}{8}$ |

Worksheet 3

- | | |
|--|--|
| 1. $\frac{1}{4}$, $\frac{2}{4}$, $\frac{3}{4}$ | 5. $\frac{1}{3}$, $\frac{2}{3}$, $\frac{5}{6}$ |
| 2. $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ | 6. $\frac{1}{2}$ |
| 3. $\frac{3}{8}$, $\frac{5}{8}$, $\frac{7}{8}$ | 7. $\frac{3}{4}$ |
| 4. $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ | |

Worksheet 4

- | | |
|-------------------|------------------------------|
| 1. $2\frac{1}{2}$ | 8. $\frac{13}{4}$ |
| 2. $2\frac{1}{3}$ | 9. $\frac{9}{5}$ |
| 3. $2\frac{1}{4}$ | 10. $\frac{17}{7}$ |
| 4. $2\frac{1}{5}$ | 11. $\frac{9}{2}$ |
| 5. $2\frac{1}{6}$ | 12. $\frac{17}{5}$ |
| 6. $4\frac{1}{4}$ | 13. $\frac{7}{4}$ is greater |
| 7. $\frac{7}{3}$ | 14. $\frac{8}{3}$ |

Worksheet 5

- | | |
|-------------------|------------------------------|
| 1. $\frac{3}{5}$ | 8. $\frac{4}{7}$ |
| 2. $\frac{5}{8}$ | 9. $\frac{1}{2}$ |
| 3. $\frac{5}{7}$ | 10. $\frac{1}{3}$ |
| 4. $\frac{7}{9}$ | 11. $\frac{1}{2}$ |
| 5. $\frac{7}{10}$ | 12. $\frac{1}{2}$ |
| 6. $\frac{7}{12}$ | 13. Both equal $\frac{5}{8}$ |
| 7. $\frac{1}{2}$ | 14. Yes |

Worksheet 6

- | | |
|-------|--------|
| 1. 12 | 7. 24 |
| 2. 9 | 8. 35 |
| 3. 8 | 9. 18 |
| 4. 12 | 10. 12 |
| 5. 21 | 11. 12 |
| 6. 24 | 12. 24 |

Worksheet 7

- | | |
|--------------------|-------------------------------------|
| 1. $\frac{15}{18}$ | 6. $\frac{7}{8}$ |
| 2. $\frac{5}{6}$ | 7. $\frac{2}{5}$ |
| 3. $\frac{2}{3}$ | 8. $\frac{3}{8}$ |
| 4. $2\frac{1}{4}$ | 9. Yes, $\frac{3}{4} = \frac{6}{8}$ |
| 5. $\frac{12}{5}$ | 10. $\frac{3}{8}$ cup |