Grade 4

Topic: Compare Fractions

> **Instructions**
>
> Solve each question carefully. Show your work for full credit. Use $<, >, =$ to compare fractions where required.

Section 1: Comparing Like Denominators

Compare the fractions using $<, >, =$.

1. $\frac{3}{8}$ _____ $\frac{5}{8}$

2. $\frac{7}{12}$ _____ $\frac{4}{12}$

3. $\frac{2}{5}$ _____ $\frac{2}{5}$

4. $\frac{9}{15}$ _____ $\frac{12}{15}$

5. $\frac{11}{20}$ _____ $\frac{9}{20}$

Section 2: Comparing Unlike Denominators

Convert to a common denominator and compare.

1. $\frac{3}{4}$ —— $\frac{5}{6}$

2. $\frac{7}{9}$ —— $\frac{5}{8}$

3. $\frac{2}{3}$ —— $\frac{3}{5}$

4. $\frac{1}{7}$ —— $\frac{2}{9}$

5. $\frac{5}{11}$ —— $\frac{6}{13}$

Section 3: Ordering Fractions

Arrange the following fractions in ascending order.

1. $\frac{5}{8}, \frac{3}{4}, \frac{2}{5}$

2. $\frac{7}{12}, \frac{2}{3}, \frac{5}{6}$

3. $\frac{4}{9}, \frac{7}{10}, \frac{1}{2}$

4. $\frac{3}{7}, \frac{5}{9}, \frac{2}{5}$

5. $\frac{11}{20}, \frac{1}{2}, \frac{3}{5}$

Section 4: Word Problems

Solve the following problems by comparing fractions.

1. Amy ate $\frac{3}{5}$ of a cake, and John ate $\frac{2}{3}$. Who ate more?

2. A bottle holds $\frac{4}{7}$ of a liter of water. Another bottle holds $\frac{3}{5}$ of a liter. Which bottle contains more water?

3. A rope is $\frac{7}{12}$ meters long. Another rope is $\frac{5}{8}$ meters long. Which rope is longer?

4. Out of 15 apples, Lisa ate $\frac{2}{5}$, and Tom ate $\frac{3}{6}$. Who ate more apples?

5. A student solved $\frac{9}{14}$ of a test, while another solved $\frac{5}{9}$. Who completed more of the test?

Section 5: Challenge Questions

Solve the following advanced comparison problems.

1. Compare $\frac{13}{20}$ and $\frac{5}{9}$ without converting to decimals.

2. Which is greater: $\frac{7}{15} + \frac{2}{5}$ or $\frac{4}{9} + \frac{1}{3}$?

3. Which fraction is closer to 1: $\frac{11}{12}$ or $\frac{15}{16}$?

4. Find two fractions between $\frac{1}{4}$ and $\frac{1}{3}$.

5. Order $\frac{5}{6}, \frac{3}{7}, \frac{9}{10}, \frac{2}{5}$ from greatest to least.

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