

Grade 6

Topic: Fractions and Decimals

Instructions

Solve each question carefully by applying your understanding of fractions and decimals. Convert between fractions and decimals, perform operations (add, subtract, multiply, divide), and solve word problems with proper working. Write your answers clearly in the spaces provided and show steps where required.

Part A: Understanding Fractions

- 1. Write $\frac{3}{4}$ as a decimal.
- 2. Convert $\frac{5}{10}$ to its simplest form.
- 3. Write 0.75 as a fraction in simplest form.
- 4. Which is greater: $\frac{2}{3}$ or $\frac{3}{5}$?
- 5. Order the fractions from least to greatest: $\frac{1}{2}, \frac{3}{4}, \frac{2}{3}$

Part B: Adding and Subtracting Fractions

1. $\frac{1}{4} + \frac{3}{4} = ---$ 2. $\frac{5}{6} - \frac{1}{2} = ---$ 3. $\frac{2}{5} + \frac{1}{10} = ---$ 4. $\frac{7}{8} - \frac{3}{8} = ---$ 5. $\frac{3}{10} + \frac{2}{5} = ---$

Part C: Multiplying and Dividing Fractions

1. $\frac{2}{3} \times \frac{3}{4} = \dots$ 2. $\frac{5}{6} \div \frac{1}{2} = \dots$ 3. $\frac{3}{7} \times 2 = \dots$ 4. $\frac{4}{5} \div \frac{2}{3} = \dots$ 5. $\frac{1}{2} \times \frac{1}{2} = \dots$

Part D: Decimals Practice

- 1. Write $\frac{1}{5}$ as a decimal.
- 2. Convert 0.4 to a fraction in simplest form.
- 3. Round 3.678 to the nearest tenth.
- 4. Add: $1.25 + 2.7 = \dots$
- 5. Subtract: 5.6 $3.45 = \dots$

Part E: Word Problems

- 1. Sarah ate $\frac{3}{8}$ of a cake. Her friend ate $\frac{1}{4}$. How much of the cake did they eat in total?
- 2. A bottle contains 1.5 liters of juice. If you drink 0.75 liters, how much is left?
- 3. A ribbon is 2.4 meters long. It is cut into 4 equal parts. What is the length of each part?
- 4. A recipe uses $\frac{2}{3}$ cup of sugar. How much sugar is needed for 3 recipes?
- 5. Which is greater: 0.6 or $\frac{5}{8}$? Show your reasoning.

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