

Grade 4 Math Worksheet: Equivalent Fractions (Difficulty Level: Advanced)

Name: _____

Date: _____

Part A: Find the Missing Numerator or Denominator

1. $\frac{2}{5} = \frac{_}{25}$
 2. $\frac{7}{8} = \frac{_}{32}$
 3. $\frac{3}{4} = \frac{_}{20}$
 4. $\frac{5}{9} = \frac{_}{54}$
 5. $\frac{8}{11} = \frac{_}{33}$
 6. $\frac{4}{7} = \frac{_}{21}$
 7. $\frac{9}{10} = \frac{_}{100}$
 8. $\frac{6}{13} = \frac{_}{39}$
 9. $\frac{5}{8} = \frac{_}{64}$
 10. $\frac{1}{3} = \frac{_}{27}$
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Part B: Write Equivalent Fractions in Simplest Form

1. $\frac{28}{42} = \frac{_}{_}$
 2. $\frac{36}{54} = \frac{_}{_}$
 3. $\frac{48}{72} = \frac{_}{_}$
 4. $\frac{60}{100} = \frac{_}{_}$
 5. $\frac{90}{120} = \frac{_}{_}$
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Part C: Fill in the Blanks

Complete each equivalent fraction chain:

1. $\frac{1}{3} = \frac{2}{6} = \frac{_}{9} = \frac{_}{12}$
2. $\frac{2}{5} = \frac{4}{10} = \frac{_}{15} = \frac{_}{20}$
3. $\frac{3}{8} = \frac{6}{16} = \frac{_}{24} = \frac{_}{32}$
4. $\frac{5}{7} = \frac{10}{14} = \frac{_}{21} = \frac{_}{28}$

5. $\frac{7}{10} = \frac{14}{20} = \frac{\quad}{30} = \frac{\quad}{40}$

Part D: Mixed Numbers and Improper Fractions

Convert between improper fractions and mixed numbers:

1. $\frac{9}{4} = \underline{\hspace{2cm}}$
 2. $\frac{14}{5} = \underline{\hspace{2cm}}$
 3. $\frac{22}{7} = \underline{\hspace{2cm}}$
 4. $7 \frac{3}{8} = \underline{\hspace{2cm}}$
 5. $4 \frac{5}{6} = \underline{\hspace{2cm}}$
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Part E: Word Problems

1. A baker uses $\frac{5}{12}$ of a bag of flour for one recipe and $\frac{7}{12}$ for another. How much flour does the baker use in total?
 2. A tank holds 50 gallons of water. If $\frac{2}{5}$ of the tank is full, how many gallons of water are in the tank?
 3. A classroom has 30 students. If $\frac{2}{3}$ of them are girls, how many students are girls?
 4. A cyclist travels $\frac{3}{8}$ of a mile uphill and $\frac{5}{8}$ of a mile downhill. How far does the cyclist travel in total? Simplify your answer.
 5. If you eat $\frac{2}{7}$ of a pizza and your friend eats $\frac{4}{7}$ of a pizza, what fraction of the pizza is left?
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--BE THE CHAMPION!--