

Problem-Solving Equivalent Fractions Worksheet

Section 1: Fill in the Missing Numbers

1. Ethan ate $\frac{3}{5}$ of a pizza. His friend said he ate the same as $\frac{?}{10}$ of the pizza. What number should replace the question mark?
2. A recipe calls for $\frac{2}{3}$ cup of flour, but Lily only has a measuring cup marked in sixths. How many sixths of a cup should she use?
3. A runner completed $\frac{4}{8}$ of a track. Write an equivalent fraction with a denominator of 16.
4. A farmer divided his land into 12 equal sections and planted crops in $\frac{5}{6}$ of them. What fraction of the land is used for crops if written with a denominator of 24?
5. Tom drank $\frac{2}{4}$ of his juice bottle. Express this fraction with a denominator of 8.

Section 2: Word Problems on Real-Life Situations

1. Sarah made $\frac{3}{4}$ of a cake for a party, and she cut it into smaller equal pieces. If she wanted to express this amount using a denominator of 8, what fraction would she use?
2. A chocolate bar is divided into 15 equal pieces. Mike ate $\frac{2}{5}$ of the bar. How many pieces did he eat?
3. A classroom has 30 students. Two-thirds of the students brought a lunch from home. How many students brought their lunch?
4. Emma painted $\frac{4}{9}$ of a wall. If she wants to express this fraction with a denominator of 27, what is the equivalent fraction?
5. James has a ribbon that is $\frac{5}{10}$ of a meter long. If he wants to write the fraction with a denominator of 20, what will it be?