Cumulative Practice

Name: _____

Set 1: Equivalent Fractions

Write the missing numbers to find equivalent fractions.

1. $\frac{1 \times \square}{4 \times \square} = \frac{\square}{8}$
2. $\frac{1 \times \square}{2 \times \square} = \frac{5}{\square}$
3. $\frac{8 \div \square}{12 \div \square} = \frac{2}{\square}$
4. $\frac{1 \times \square}{3 \times 2} = \frac{\square}{\square}$
5. $\frac{3 \times 3}{4 \times \square} = \frac{\square}{\square}$
6. $\frac{1 \times \square}{3 \times \square} = \frac{4}{\square}$

Set 2: Compare Fractions

Compare the fractions using <, >, or =. Show your work.

1. $\frac{3}{4}$ and $\frac{7}{8}$
2. $\frac{2}{3}$ and $\frac{3}{8}$
3. $\frac{3}{5}$ and $\frac{6}{10}$
4. $\frac{5}{6}$ and $\frac{4}{3}$
5. $\frac{2}{6}$ and $\frac{1}{4}$
6. $\frac{1}{3}$ and $\frac{2}{6}$

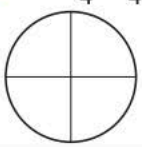
Set 3: Add and Subtract Fractions

Solve problems 1–4.

1. What is $\frac{1}{5}$ more than $\frac{3}{5}$? .....
2. What is $\frac{1}{5}$ less than $\frac{3}{5}$? .....
3. $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} =$ .....
4. $\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} =$ .....

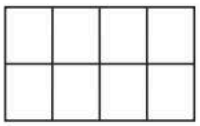
Use the area models to show adding or subtracting fractions for problems 5 and 6.

5. Show $\frac{1}{4} + \frac{2}{4}$.



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

6. Show $\frac{5}{8} - \frac{3}{8}$.



$\frac{5}{8} - \frac{3}{8} =$ .....

Set 4: Decompose Fractions

Complete the equations to show a way to decompose each fraction.

1. $\frac{5}{8} = \frac{1}{8} + \frac{2}{8} +$ .....
2. $\frac{6}{5} = \frac{4}{5} +$ .....
3. ..... $+ \frac{1}{4} = \frac{4}{4}$
4. $\frac{7}{12} = \frac{1}{12} + \frac{2}{12} +$ .....
5. $\frac{45}{100} = \frac{40}{100} +$ .....
6. ..... $+ \frac{7}{10} = \frac{13}{10}$
7. $\frac{12}{100} = \frac{3}{100} + \frac{4}{100} +$ .....
8. $3\frac{1}{4} = \frac{7}{4} +$ .....
9. ..... $+ \frac{4}{6} = 1\frac{3}{6}$

Set 5: Add and Subtract Fractions in Word Problems

Add or subtract to solve the problems. Show your work.

1. Laura eats $\frac{2}{8}$ of a pizza. Hugo eats $\frac{3}{8}$ of the pizza. What fraction of the pizza do they eat altogether?

2. Josefa has $\frac{4}{5}$ of a pound of blackberries. She gives $\frac{1}{5}$ of a pound of blackberries away. How many pounds of blackberries does she have left?

3. Deion has weeded $\frac{7}{12}$ of his yard. Deion wants to weed the whole yard. What fraction of the yard is left to be weeded?

4. Nicole walks $\frac{1}{4}$ of a mile to school and $\frac{1}{4}$ of a mile home. How far does she walk in total?

5. Rodrigo needs $\frac{1}{6}$ of a cup of walnuts to make salad, and $\frac{4}{6}$ of a cup of walnuts to make muffins. How many cups of walnuts does he need altogether?

6. Diane cuts an apple into 8 equal-sized pieces. She eats $\frac{3}{8}$ of the apple. Her friend eats $\frac{1}{8}$ of the apple. What fraction of the apple is left?

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Set 6: Add and Subtract Mixed Numbers

Add or subtract. Show your work.

1. $1\frac{1}{4} + 2\frac{1}{4}$

2. $2\frac{3}{5} - 1\frac{1}{5}$

3. $3\frac{6}{10} + 2\frac{4}{10}$

4. $1\frac{5}{6} + 1\frac{4}{6}$

5. $5\frac{2}{8} - 2\frac{5}{8}$

6. $4\frac{3}{5} - 3\frac{4}{5}$

Set 7: Multiply Fractions by Whole Numbers in Word Problems

Write and solve a multiplication equation to solve each problem. Show your work.

1. Marcos walks $\frac{5}{6}$ of a mile each day for 5 days in a row. How far does he walk altogether?

2. Damian is making mini apple pies. One mini apple pie uses $\frac{1}{2}$ of a pound of apples. How many pounds of apples does Damian need to make 6 mini apple pies?

3. Julia plays soccer for $\frac{2}{3}$ of an hour each day for 4 days. How long does she spend playing soccer altogether?

4. Eric drinks 3 full glasses of water. His glass holds $\frac{4}{5}$ of a cup of water. How many cups of water does Eric drink altogether?