

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.

1 What is $\frac{1}{5}$ more than $\frac{3}{5}$?

2 What is $\frac{1}{5}$ less than $\frac{3}{5}$?

3 $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} =$

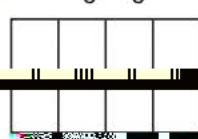
4 $\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} =$

Use the area models to show and solve problems 5 and 6.

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



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



Set 4: Decompose Fractions

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

1 $\frac{5}{8} = \frac{1}{8} + \frac{2}{8} + \dots$

2 $\frac{6}{5} = \frac{4}{5} + \dots$

3 $\frac{5}{4} + \frac{1}{4} = \frac{4}{4}$

4 $\frac{7}{12} = \frac{1}{12} + \frac{2}{12} + \dots$

5 $\frac{45}{100} = \frac{40}{100} + \dots$

6 $\dots + \frac{7}{12} = \frac{13}{12}$

7 $\frac{12}{100} = \frac{3}{100} + \frac{4}{100} + \dots$

8 $3\frac{1}{4} = 3 + \frac{1}{4}$

Set 5: Add and Subtract Fractions in Word Problems

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

- 1 Laura ate $\frac{3}{8}$ of a pizza. Mark ate $\frac{5}{8}$ of a pizza. How much pizza did they eat altogether?

- 2 Josefa has $\frac{4}{5}$ of a pound of blackberries. She gives $\frac{1}{5}$ of a pound of blackberries to her friend. How much blackberries does she have left?

- 3 Dierk has fenced $\frac{7}{12}$ of his yard. Dierk wants to fence the whole yard. What fraction of the yard is left to be fenced?

- 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 a salad, and $\frac{2}{6}$ of a cup of walnuts to make muffins. How many cups of walnuts does he need altogether?

- 6 Her friend ate $\frac{3}{8}$ of the apple. How much of the apple was left?

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 $5\frac{7}{8} - 2\frac{5}{8}$

6 $3\frac{2}{5} - 1\frac{3}{5}$

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 he need to make 10 pies?

- 3 Julia plays soccer for $\frac{2}{3}$ of an hour each day. How many hours 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?