


Understanding Mixed Numbers

Name _____ Class _____ Date _____

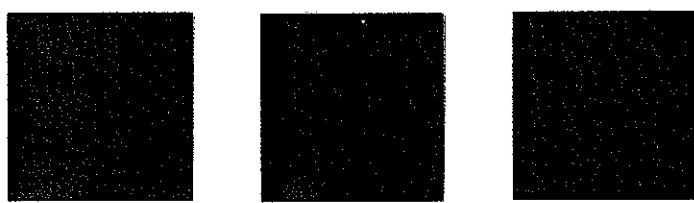
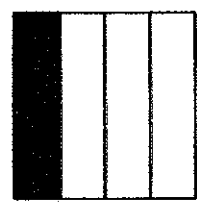
GET STARTED

1  _____

2  _____ = _____

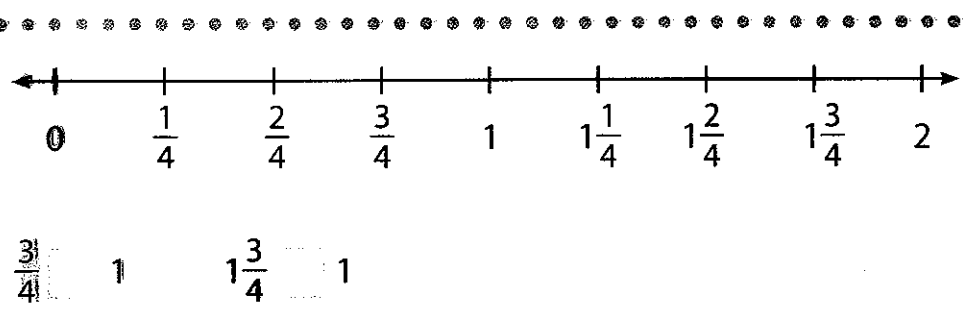
3  1 whole + 1 whole = _____ wholes

_____ = 1 whole _____ = 1 whole

4   $1 + 1 + 1 = \underline{\hspace{1cm}}$
 $3 + \frac{1}{4} = \underline{\hspace{1cm}}$

_____ = 1 whole _____ = 1 whole _____ = 1 whole _____

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BUILD THE CONCEPT

TRY IT TOGETHER

Write a mixed number for the shaded area.

5



— = 1 whole —

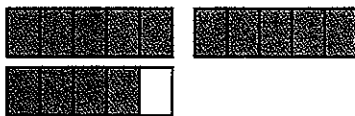
6



WORK ON YOUR OWN

Write a Mixed Number

Using Symbols



1. Whole number: 2

2. Fraction: $\frac{4}{5}$

3. Mixed number: $2\frac{4}{5}$

Using Words

Write the number that represents the whole number part of the mixed number.

Write the fraction that represents the fraction part of the mixed number.

Combine the whole number part and the fraction part.



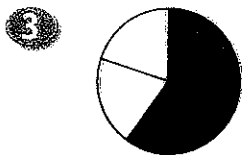
Adding Fractions with Like Denominators

Name _____ Class _____ Date _____

GET STARTED

① $\frac{3}{6} = \frac{3 \div \quad}{6 \div \quad} = \frac{\quad}{\quad}$

② $\frac{4}{12} = \frac{4 \div \quad}{12 \div \quad} = \frac{\quad}{\quad}$

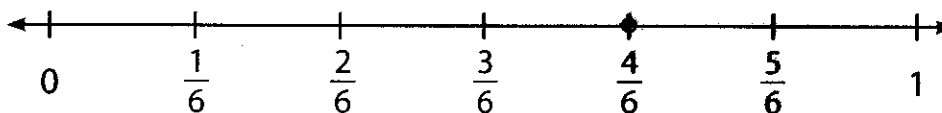


④ $\frac{2}{8} + \frac{2}{8} = \frac{\quad \div \quad}{\quad \div \quad} = \frac{\quad}{\quad}$

$\frac{1}{5} + \frac{2}{5} = \frac{\quad}{\quad}$

Use the number line to find the sum of $\frac{4}{6}$ and $\frac{1}{6}$.

**BUILD
THE
CONCEPT**



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

TRY IT TOGETHER

Find each sum. Simplify if possible.

5 $\frac{2}{4} + \frac{1}{4} = \underline{\quad}$

6 $\frac{4}{9} + \frac{2}{9} = \frac{\div}{\div} = \underline{\quad}$

7 $\frac{3}{10} + \frac{7}{10} = \underline{\quad} = \underline{\quad}$

WORK ON YOUR OWN



Add Fractions with Like Denominators

Using Symbols

1. $\frac{1}{9} + \frac{2}{9} = \frac{3}{\square}$

2. $\frac{1}{9} + \frac{2}{9} = \frac{3}{9}$

3. $\frac{3}{9} = \frac{1}{3}$

Using Words

Add the numerators of the fractions.

Keep the like denominator the same.

Simplify the sum if possible.

TRY IT TOGETHER

Find each difference. Simplify if possible.

5 $\frac{5}{6} - \frac{4}{6} = \underline{\quad}$

6 $\frac{3}{4} - \frac{1}{4} = \frac{\quad}{\quad} = \underline{\quad}$

7 $\frac{7}{10} - \frac{3}{10} = \frac{\quad}{\quad} = \underline{\quad}$

8 $\frac{5}{9} - \frac{2}{9} = \frac{\quad}{\quad} = \underline{\quad}$

WORK ON YOUR OWN



Subtract Fractions with Like Denominators

Using Symbols

1. $\frac{7}{9} - \frac{4}{9} = \frac{3}{\square}$

2. $\frac{7}{9} - \frac{4}{9} = \frac{3}{9}$

3. $\frac{3}{9} = \frac{1}{3}$

Using Words

Subtract the numerators of the fractions.

Keep the like denominator the same.

Simplify the difference if possible.

Problem-Solving: Finding Patterns

Name _____ Class _____ Date _____

GET STARTED

① 0, 4, 8, 12, 16, _____, _____ Pattern: _____

② $\frac{2}{5} + \frac{3}{5} = \text{---} = \text{---}$

③ $\frac{7}{8} - \frac{6}{8} = \text{---}$

- ④ Amber is building a model of the Empire State Building. She completes $\frac{1}{5}$ of the model each day. If she completed $\frac{1}{5}$ of the model on the first day and $\frac{2}{5}$ of the model was complete at the end of the second day, what fraction of the model will she have completed by the fourth day?

a. Find: _____

b. How? _____

c. Solve. Pattern: Add $\frac{1}{5}$.

First day: $\frac{1}{5}$

Second day: $\frac{2}{5}$

Third day: $\text{---} + \text{---} = \text{---}$

Fourth day: $\text{---} + \text{---} = \text{---}$

Amber will have completed --- of the model by the fourth day.

d. Is the answer reasonable? Explain. _____

TRY IT TOGETHER

Solve the problem.

5 After 1 day, Mark had $\frac{12}{15}$ of a story left to read. After 2 days, he had $\frac{9}{15}$ left to read. If this pattern continues, what fraction of the story will he have left after 3 days?

a. Find: _____

b. How? _____

c. Solve. Pattern: _____

First day: $\frac{12}{15}$ Second day: $\frac{9}{15}$ Third day: _____ = _____ = _____

Mark will have _____ = _____ of the story left to read after 3 days.

d. Is the answer reasonable? Explain. _____

WORK ON YOUR OWN



Solve a Problem by Finding a Pattern

Jolene has treats. After 1 week, $\frac{7}{8}$ of the treats are left. After 2 weeks, $\frac{5}{8}$ of the treats are left. If this pattern continues, how much will be left after 3 weeks?

1. Find: how much of the treats will be left after 3 weeks

2. How: Find a pattern.

3. Solve. Pattern: Subtract $\frac{2}{8}$.

Week 1: $\frac{7}{8}$ Week 2: $\frac{5}{8}$ Week 3: $\frac{5}{8} - \frac{2}{8} = \frac{3}{8}$

Jolene will have $\frac{3}{8}$ of the treats left after 3 weeks.

4. Is the answer reasonable? Explain. Yes, the amount of treats decreases with each week.

Adding Mixed Numbers with Like Denominators

Name _____ Class _____ Date _____

GET STARTED

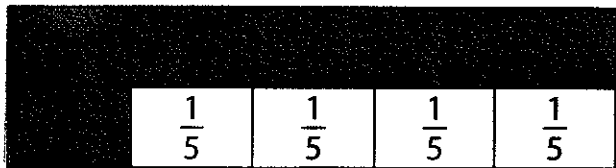
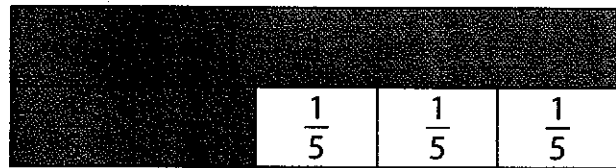
1 $\frac{3}{5} + \frac{1}{5} = \underline{\quad}$

2 $\frac{2}{6} + \frac{1}{6} = \frac{\div}{\div} = \underline{\quad}$

3
$$\begin{array}{r} 1\frac{2}{7} \\ + 1\frac{3}{7} \\ \hline \end{array}$$

4
$$\begin{array}{r} 2\frac{2}{6} + 4\frac{1}{6} \\ \frac{2}{6} \\ + 4\frac{1}{6} \\ \hline \end{array}$$

Use the fraction strips to find the sum of $1\frac{2}{5}$ and $1\frac{1}{5}$.



$1\frac{2}{5} + 1\frac{1}{5} = \square \frac{\square}{\square}$

BUILD THE CONCEPT

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TRY IT TOGETHER

Find each sum. Simplify if possible.

5 $4\frac{3}{5} + 2\frac{1}{5}$

$$\begin{array}{r} 4\frac{3}{5} \\ + 2\frac{1}{5} \\ \hline \end{array}$$

6 $5\frac{1}{4} + 9\frac{1}{4}$

$$\begin{array}{r} 5\frac{1}{4} \\ + 9\frac{1}{4} \\ \hline \end{array}$$

7 $3\frac{1}{9} + 1\frac{7}{9}$

$$\begin{array}{r} 3\frac{1}{9} \\ + 1\frac{7}{9} \\ \hline \end{array}$$

WORK ON YOUR OWN



Add Mixed Numbers with Like Denominators

Using Symbols

1. $4\frac{1}{10} + 1\frac{4}{10}$

$$\begin{array}{r} 4\frac{1}{10} \\ + 1\frac{4}{10} \\ \hline \end{array}$$

Using Words

Write the problem vertically.

2. $4\frac{1}{10}$

$$\begin{array}{r} 4\frac{1}{10} \\ + 1\frac{4}{10} \\ \hline 5\frac{5}{10} \end{array}$$

Add the fraction parts of the mixed numbers.

3. $4\frac{1}{10}$

$$\begin{array}{r} 4\frac{1}{10} \\ + 1\frac{4}{10} \\ \hline 5\frac{5}{10} \end{array}$$

Add the whole number parts of the mixed numbers.

4. $5\frac{5}{10} = 5\frac{1}{2}$

Simplify the sum if possible.

