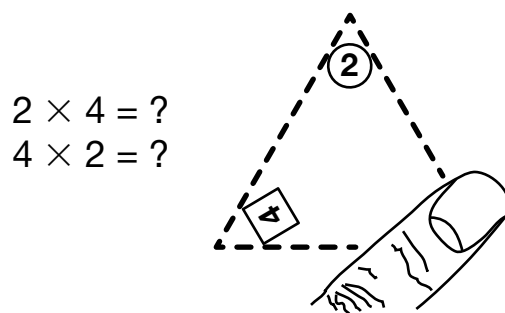


Unit 3: Home Practice

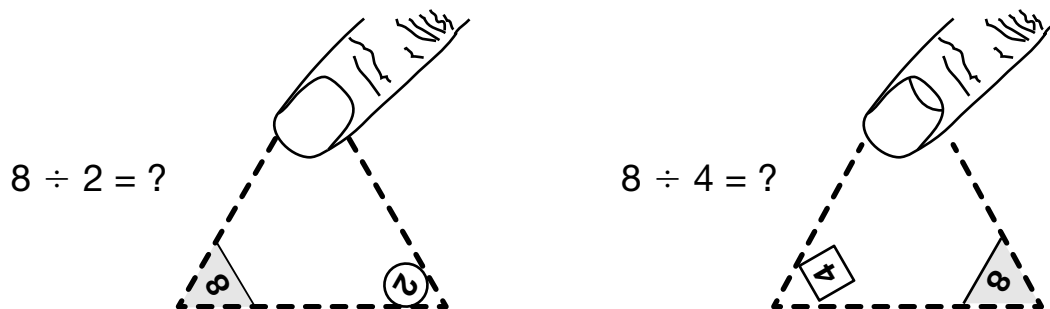
Part 1 Triangle Flash Cards: 2s and 3s

Study for the quiz on the multiplication and division facts for the 2s and 3s. Take home your Triangle Flash Cards: 2s and 3s and your list of facts you need to study.

To use the flash cards, ask a family member to choose one flash card at a time. To quiz you on a multiplication fact, he or she should cover the corner containing the highest number, the shaded number. This number will be the answer to a multiplication fact. Multiply the two uncovered numbers.



To quiz you on a division fact, your family member can cover the number in the square. Solve a division fact with the two uncovered numbers. Ask your family member to go through the cards again, this time covering the number in the circle.



Ask your family member to mix up the multiplication and division facts. He or she should sometimes cover the highest number, sometimes cover the circled number, and sometimes cover the number in the square.

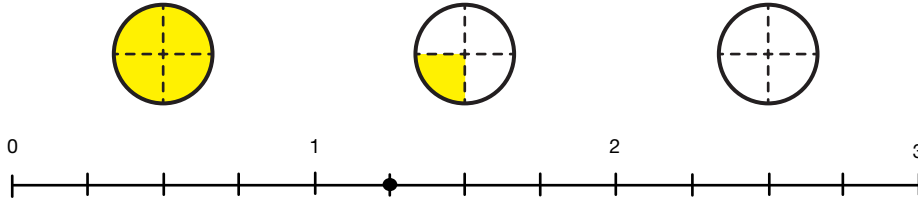
Remember to study only those facts you cannot answer correctly and quickly. Your teacher will tell you when the quiz on the 2s and 3s will be given.

Part 2 Representing Fractions

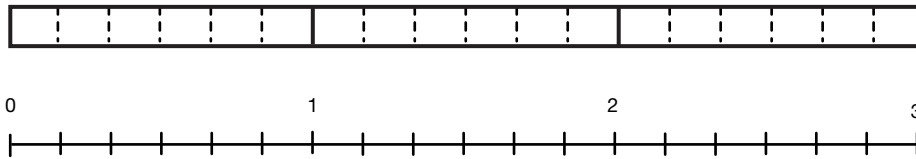
Show the fraction by shading the circles or rectangle. Then show where it is on the number line. Label the point. The first problem is an example.

Example:

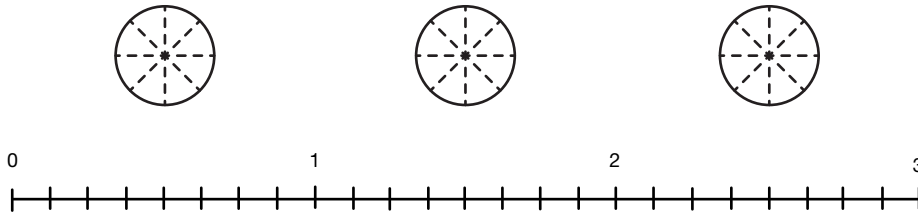
$$1\frac{1}{4}$$



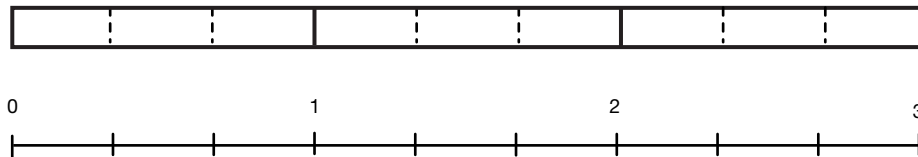
1. $\frac{8}{6}$



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



3. $\frac{5}{3}$



Part 3 Mixed Numbers

Solve the following problems.

1. Change the following mixed numbers to fractions.

A. $7\frac{1}{3}$

B. $3\frac{2}{5}$

C. $11\frac{1}{8}$

2. Change the following fractions to mixed numbers.

A. $\frac{14}{3}$

B. $\frac{65}{7}$

C. $\frac{103}{10}$

Part 4 Rounding Numbers

Draw (or think of) number lines to help you with Questions 1–2.

1. Round the following numbers to the nearest thousand.

A. 2138

B. 5894

C. 988

D. 14,867

E. 28,159

F. 59,876

2. Round the following numbers to the nearest ten thousand.

A. 12,864

B. 28,157

C. 59,874

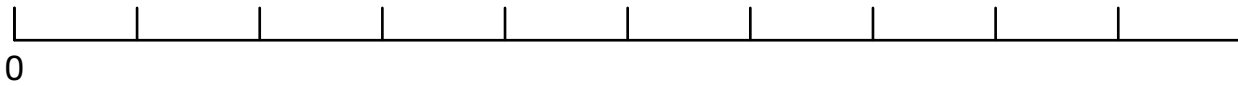
D. 109,968

E. 190,957

F. 216,436

Part 5 Numbers in the Hundreds and Thousands

1. Number the line below from 0 to 10,000. Skip count by 1000s.



Read each of the facts about the United States. Then make a tick mark on the number line to show where each number falls on the line. Label the tick mark with the appropriate letter.

- A.** The highest bridge in the United States—1053 feet—is in Colorado. It is the suspension bridge over the Royal Gorge of the Arkansas River.
- B.** Mount Katahdin is the highest spot in Maine—5267 feet. This mountain is the first place in the entire United States to get hit with sunlight when the sun rises in the morning.
- C.** The world’s tallest tree is 378 feet tall. It is a redwood tree in California. It is almost as tall as a 40-story building.
2. Without actually finding exact answers to these problems, give the number of digits in the answer. Explain how you know.
- A.** $512 + 369$

B. $843 - 776$

C. $2190 + 8756$

D. 15×65

E. $4589 - 637$

Part 6 Multiplication Practice

1. **A.** 200×60 **B.** $300 \times 4 =$ **C.** $3000 \times 50 =$ **D.** $3000 \times 800 =$

E. $5000 \times 20 =$ **F.** $30 \times 600 =$ **G.** $900 \times 300 =$ **H.** $20,000 \times 5,000 =$

2. Solve the following problems. Choose an appropriate method: mental math, paper-and-pencil, or a calculator. Hint: Sometimes drawing a picture of a problem can help you solve it.
- A.** Jessie's mother is shopping in a sports store. Socks are on sale for \$2.95 for 3 pairs. If she has \$20, how many pairs of socks can she buy?
- B.** Lin's father purchased a brand new car. His car payments are \$500 monthly for 4 years. After 4 years, how much will he have paid for his car?
- C.** Last year Mr. Moreno bought two cans of soda from the machine at school each day. This year he decided to drink water instead. If one can of soda costs \$1.50, will Mr. Moreno save more or less than \$600 in one school year? (A school year has about 180 school days.)

Part 7 Number Sentences with Fractions

1. Write $<$, $>$, or $=$ to make each number sentence true.

A. $\frac{9}{2} \bigcirc \frac{9}{5}$

B. $\frac{5}{5} \bigcirc \frac{10}{10}$

C. $\frac{7}{12} \bigcirc \frac{7}{10}$

D. $\frac{5}{3} \bigcirc \frac{9}{6}$

E. $\frac{9}{2} \bigcirc \frac{9}{5}$ and $\frac{5}{8} \bigcirc \frac{1}{2}$ so $\frac{3}{6} \bigcirc \frac{5}{8}$

2. Find the fraction to make each number sentence true.

A. $\frac{6}{24} = \frac{1}{4} = \frac{\square}{8}$

B. $\frac{1}{3} = \frac{5}{15} = \frac{\square}{24}$

C. $\frac{3}{4} = \frac{\square}{12} = \frac{12}{16}$

D. $\frac{9}{15} = \frac{12}{20} = \frac{3}{\square}$

3. Estimate to decide if each sum or difference is less than or greater than one. Then solve each problem.

Circle one

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

Less than one

Greater than one

B. $\frac{5}{3} - \frac{1}{3} = \square$

Less than one

Greater than one

C. $\frac{3}{4} + \frac{4}{8} = \square$

Less than one

Greater than one

D. $\frac{14}{8} - \frac{3}{6} = \square$

Less than one

Greater than one

E. $\frac{3}{4} - \frac{2}{6} = \square$

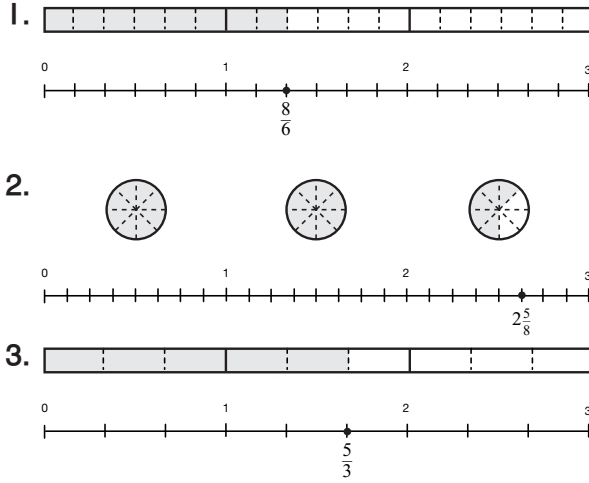
Less than one

Greater than one

F. Show or tell how you decided if the estimated answer was less than or greater than one for Question C.

Teacher Guide

Part 2. Representing Fractions (TG p. 2)
Questions 1–3



Part 3. Mixed Numbers (TG p. 3)
Questions 1–2

1. A. $\frac{22}{3}$
 B. $\frac{17}{5}$
 C. $\frac{89}{8}$
2. A. $4\frac{2}{3}$
 B. $9\frac{2}{7}$
 C. $10\frac{3}{10}$

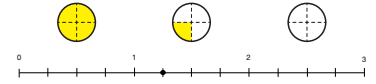
Part 4. Rounding Numbers (TG p. 3)
Questions 1–2

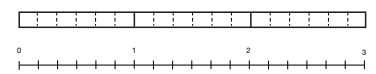
1. A. 2000 B. 6000 C. 1000
 D. 15,000 E. 28,000 F. 60,000
2. A. 10,000 B. 30,000 C. 60,000
 D. 110,000 E. 190,000 F. 220,000

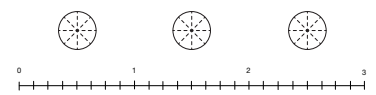
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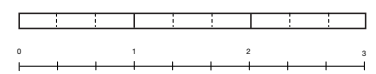
Name _____ Date _____

Part 2 Representing Fractions
 Show the fraction by shading the circles or rectangle. Then show where it is on the number line. Label the point. The first problem is an example.

Example:
 $1\frac{1}{4}$


1. $\frac{8}{6}$


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


3. $\frac{5}{3}$


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Name _____ Date _____

Part 3 Mixed Numbers
 Solve the following problems.

1. Change the following mixed numbers to fractions.
 A. $7\frac{1}{3}$ B. $3\frac{2}{5}$ C. $11\frac{1}{8}$

2. Change the following fractions to mixed numbers.
 A. $\frac{14}{3}$ B. $\frac{65}{7}$ C. $\frac{103}{10}$

Part 4 Rounding Numbers
 Draw (or think of) number lines to help you with Questions 1–2.

1. Round the following numbers to the nearest thousand.
 A. 2138 B. 5894 C. 988
 D. 14,867 E. 28,159 F. 59,876

2. Round the following numbers to the nearest ten thousand.
 A. 12,864 B. 28,157 C. 59,874
 D. 109,968 E. 190,957 F. 216,436

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Name _____ Date _____

Part 5 Numbers in the Hundreds and Thousands

1. Number the line below from 0 to 10,000. Skip count by 1000s.

Read each of the facts about the United States. Then make a tick mark on the number line to show where each number falls on the line. Label the tick mark with the appropriate letter.

A. The highest bridge in the United States—1053 feet—is in Colorado. It is the suspension bridge over the Royal Gorge of the Arkansas River.

B. Mount Katahdin is the highest spot in Maine—5267 feet. This mountain is the first place in the entire United States to get hit with sunlight when the sun rises in the morning.

C. The world's tallest tree is 378 feet tall. It is a redwood tree in California. It is almost as tall as a 40-story building.

2. Without actually finding exact answers to these problems, give the number of digits in the answer. Explain how you know.

A. $512 + 369$

B. $843 - 776$

C. $2190 + 8756$

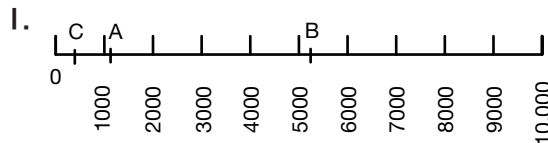
D. 15×65

E. $4589 - 637$

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Part 5. Numbers in the Hundreds and Thousands (TG p. 4)
Questions 1–2



2. A. 3 digits; $512 + 369$ is less than 1000; it is about 880.
- B. 2 digits; The difference is less than 100.
- C. 5 digits; Estimating, the sum will be over 10,000.
- D. $10 \times 65 = 650$, $20 \times 65 = 1300$. The answer is in the middle. Add 300 to 650 and get 950. Subtract 300 from 1300 and get 1000. The number in the middle of 950 and 1000 is 975—3 digits.
- E. 4 digits; The difference is about 4000.

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Name _____ Date _____

Part 6 Multiplication Practice

1. A. 200×60 B. $300 \times 4 =$ C. $3000 \times 50 =$ D. $3000 \times 800 =$

E. $5000 \times 20 =$ F. $30 \times 600 =$ G. $900 \times 300 =$ H. $20,000 \times 5,000 =$

2. Solve the following problems. Choose an appropriate method: mental math, paper-and-pencil, or a calculator. Hint: Sometimes drawing a picture of a problem can help you solve it.

A. Jessie's mother is shopping in a sports store. Socks are on sale for \$2.95 for 3 pairs. If she has \$20, how many pairs of socks can she buy?

B. Lin's father purchased a brand new car. His car payments are \$500 monthly for 4 years. After 4 years, how much will he have paid for his car?

C. Last year Mr. Moreno bought two cans of soda from the machine at school each day. This year he decided to drink water instead. If one can of soda costs \$1.50, will Mr. Moreno save more or less than \$600 in one school year? (A school year has about 180 school days.)

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Part 6. Multiplication Practice (TG p. 5)
Questions 1–2

1. A. 12,000
- B. 1200
- C. 150,000
- D. 2,400,000
- E. 100,000
- F. 18,000
- G. 270,000
- H. 100,000,000
2. A. 18 pairs
- B. $500 \times 4 \times 12 = \$24,000$
- C. Less than \$600. Estimates will vary. He would save \$3 a day.
 $\$3 \times 200 \text{ days} = \600 .
 The actual number will be less since
 $\$3 \times 180 < \3×200 .

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Part 7. Number Sentences with Fractions (TG p. 6)
Questions 1–3

1. A. >
 B. =
 C. <
 D. >
 E. >, >, <
2. A. 2
 B. 8
 C. 9
 D. 5
3. A. Less than one; $\frac{3}{4}$
 B. Greater than one; $\frac{4}{3}$ or $1\frac{1}{3}$
 C. Greater than one; $\frac{10}{8}$ or $1\frac{1}{4}$
 D. Greater than one; $\frac{10}{8}$ or $1\frac{1}{4}$
 E. Less than one; $\frac{5}{12}$
 F. Possible response: First I found that $\frac{3}{4} = \frac{6}{8}$, then I added $\frac{6}{8} + \frac{4}{8} = \frac{10}{8}$. I rewrote this as mixed number $\frac{10}{8} = 1\frac{2}{8}$. Then I wrote $\frac{2}{8}$ in simplest terms, $1\frac{2}{8} = 1\frac{1}{4}$.

Name _____ Date _____

Part 7 Number Sentences with Fractions

1. Write <, >, or = to make each number sentence true.

A. $\frac{9}{2} \bigcirc \frac{9}{10}$	B. $\frac{5}{10} \bigcirc \frac{10}{10}$
C. $\frac{7}{12} \bigcirc \frac{7}{10}$	D. $\frac{5}{10} \bigcirc \frac{9}{8}$
E. $\frac{9}{2} \bigcirc \frac{9}{10}$ and $\frac{5}{8} \bigcirc \frac{1}{2}$ so $\frac{3}{8} \bigcirc \frac{5}{8}$	
2. Find the fraction to make each number sentence true.

A. $\frac{6}{24} = \frac{1}{4} = \frac{\square}{8}$	B. $\frac{1}{3} = \frac{6}{\square} = \frac{\square}{24}$
C. $\frac{4}{12} = \frac{\square}{12} = \frac{12}{36}$	D. $\frac{6}{15} = \frac{25}{35} = \frac{3}{\square}$
3. Estimate to decide if each sum or difference is less than or greater than one. Then solve each problem.

Circle one

A. $\frac{1}{4} + \frac{1}{2} = \square$	Less than one	Greater than one
B. $\frac{5}{3} - \frac{1}{3} = \square$	Less than one	Greater than one
C. $\frac{3}{4} + \frac{4}{8} = \square$	Less than one	Greater than one
D. $\frac{14}{8} - \frac{3}{8} = \square$	Less than one	Greater than one
E. $\frac{3}{4} - \frac{2}{6} = \square$	Less than one	Greater than one

F. Show or tell how you decided if the estimated answer was less than or greater than one for Question C.

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