

Unit 2: Home Practice

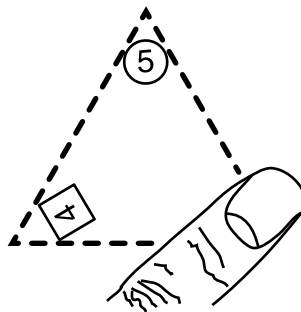
Part 1 Triangle Flash Cards: 5s and 10s

Study for the quiz on the multiplication and division facts for the 5s and 10s. Take home your Triangle Flash Cards: 5s and 10s 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.

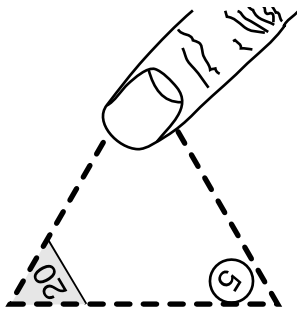
$$5 \times 4 = ?$$

$$4 \times 5 = ?$$

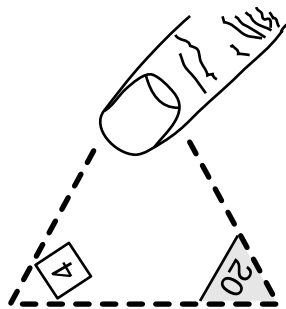


To quiz you on a division fact, your family member can cover the number in the square. Solve a division fact with the two uncovered numbers. Ask your family member to go through the cards again, this time covering the number in the circle.

$$20 \div 5 = ?$$



$$20 \div 4 = ?$$



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 5s and 10s will be given.

Part 3 Improper Fractions and Mixed Numbers

Use the *Fraction Chart* or *Fractions on Number Lines Chart* in the *Student Guide Reference* section.

1. Complete each number sentence.

A. $1\frac{2}{3} = \frac{n}{3}$ $n =$ _____

B. $2\frac{3}{4} = \frac{n}{4}$ $n =$ _____

C. $1\frac{1}{6} = \frac{n}{6}$ $n =$ _____

D. $3\frac{1}{6} = \frac{n}{6}$ $n =$ _____

E. Draw a picture that represents your answer for Question 1C.

2. Write each mixed number as an improper fraction.

A. $2\frac{3}{5} =$ _____

B. $3\frac{1}{4} =$ _____

C. $3\frac{3}{10} =$ _____

D. $3\frac{5}{8} =$ _____

E. Draw a picture that represents your answer for Question 2A.

3. Write each improper fraction as a mixed number.

A. $\frac{13}{6} =$ _____

B. $\frac{7}{2} =$ _____

C. $\frac{10}{3} =$ _____

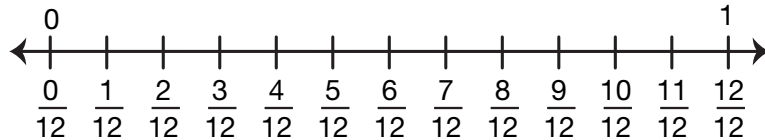
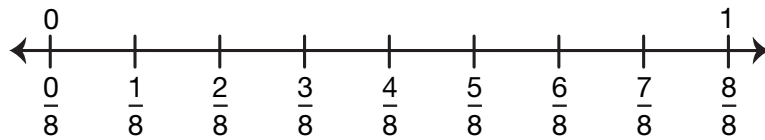
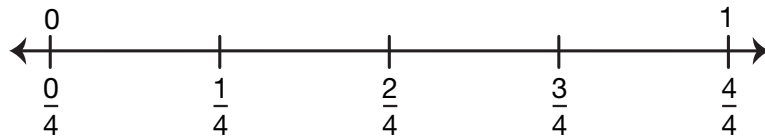
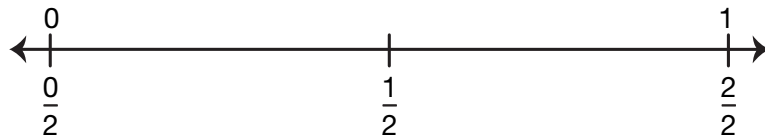
D. $\frac{14}{5} =$ _____

E. Draw a picture that represents your answer for Question 3B.

Part 4 Fractions

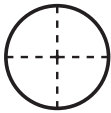
Use the number lines below.

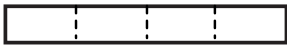
1. Name a fraction between $\frac{1}{6}$ and 1. _____
2. Name a fraction between $\frac{1}{3}$ and 1. _____
3. Name a fraction with a denominator of 4 that is between 0 and 1. _____
4. Name a fraction greater than $\frac{1}{2}$ with a denominator of 8. _____
5. Name a fraction between $\frac{6}{8}$ and 1. _____
6. Show or tell how you know $\frac{11}{12}$ is between $\frac{6}{8}$ and 1. _____

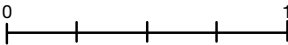


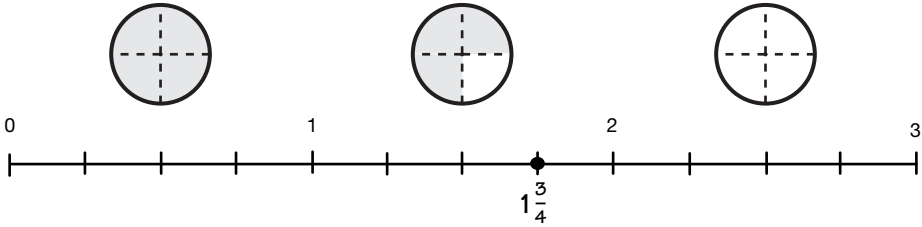
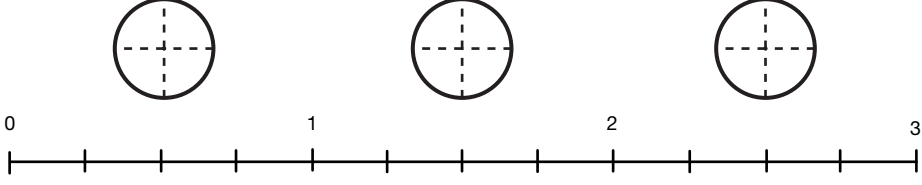

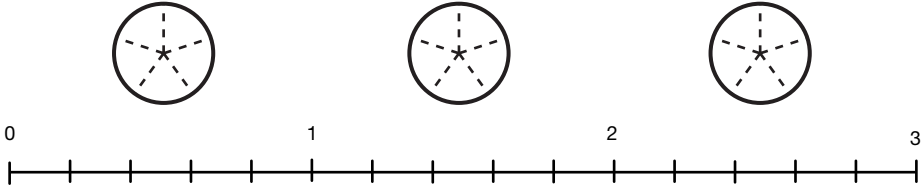
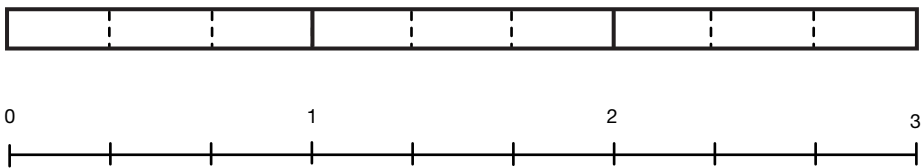
Part 5 Representing Fractions

Show the given numbers with circles or rectangles and number lines.

For circles, one circle is the unit whole: 

For rectangles, this size rectangle is the unit whole: 

For number lines, the segment from 0 to 1 is the unit whole: 

Number	Representation
<p>Example</p> $1\frac{3}{4}$	
<p>A.</p> $\frac{7}{4}$	
<p>B.</p> $1\frac{4}{6}$	
<p>C.</p> $2\frac{3}{5}$	
<p>D.</p> $\frac{4}{3}$	

Part 6 A Fraction More

Use the *Fraction Chart* or *Fractions on Number Lines Chart* in the *Student Guide Reference* section.

1. Complete the following number sentences.

A. $\frac{1}{3} = \frac{2}{n}$

$n =$ _____

B. $\frac{9}{12} = \frac{n}{4}$

$n =$ _____

C. $\frac{2}{6} = \frac{n}{12}$

$n =$ _____

D. $\frac{5}{8} = \frac{15}{n}$

$n =$ _____

E. $\frac{20}{70} = \frac{n}{7}$

$n =$ _____

F. $\frac{7}{9} = \frac{n}{36}$

$n =$ _____

G. $\frac{3}{5} = \frac{n}{25}$

$n =$ _____

H. $\frac{4}{40} = \frac{1}{n}$

$n =$ _____

I. $\frac{2}{3} = \frac{8}{n}$

$n =$ _____

2. Write each mixed number as an improper fraction.

A. $1\frac{1}{4} =$ _____

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

C. $2\frac{7}{8} =$ _____

D. $3\frac{3}{5} =$ _____

3. Write each improper fraction as a mixed number.

A. $\frac{9}{4} =$ _____

B. $\frac{20}{6} =$ _____

C. $\frac{21}{2} =$ _____

D. $\frac{23}{12} =$ _____

4. Put each of the following sets of fractions in order from smallest to largest.

A. $\frac{9}{5}$ $\frac{9}{10}$ $\frac{9}{2}$ $\frac{9}{12}$

C. $\frac{6}{6}$ $\frac{3}{6}$ $\frac{10}{6}$ $\frac{2}{6}$

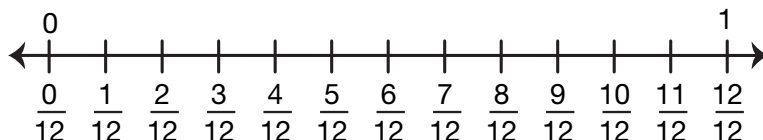
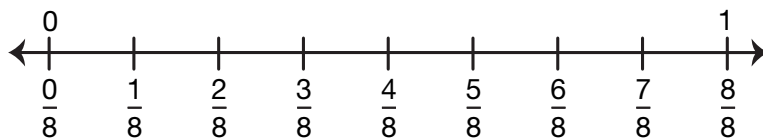
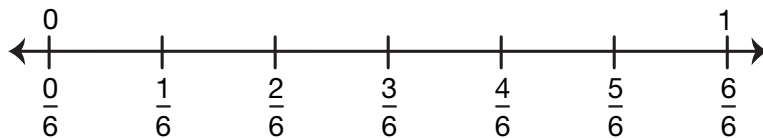
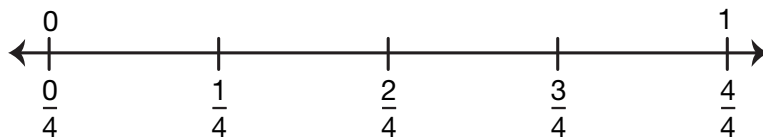
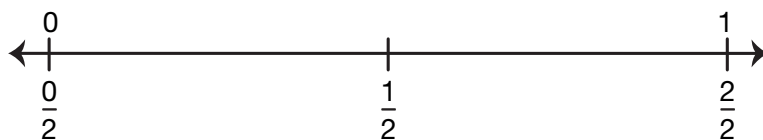
B. $\frac{5}{6}$ $\frac{8}{7}$ $\frac{7}{12}$ $\frac{1}{8}$

D. $\frac{3}{20}$ $\frac{3}{2}$ $\frac{9}{11}$ $\frac{9}{16}$

Part 7 Fraction Number Lines

Use the fraction number lines.

- Write three fractions that are between $\frac{1}{4}$ and $\frac{1}{2}$. _____, _____, _____
- Write four fractions that are less than $\frac{1}{4}$. _____, _____, _____, _____
- Name a fraction equivalent to $\frac{1}{4}$. _____
- Name two fractions that are equivalent to $\frac{2}{3}$. _____, _____
- Name three fractions between $\frac{1}{6}$ and $\frac{3}{8}$. _____, _____, _____
- Name two fractions between $\frac{3}{4}$ and $\frac{11}{12}$. _____, _____
- Name three fractions that are equivalent to $\frac{1}{2}$. _____, _____, _____



Home Practice

Part 2. Solving Problems (TG p. 1)

Questions 1–2

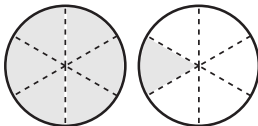
1. Estimates will vary.
 $10 \text{ pups} \times 36 \text{ litters} = 360 \text{ pups};$
 $20 \text{ pups} \times 36 \text{ litters} = 720 \text{ pups};$
 Between 360 and 720. About 500 pups.
2. **A.** Less than 25,000 calories.
 $3000 \times 7 = 21,000$
- B.** A boy should eat 2100 more calories than a girl in one week.
 $300 \text{ per day more} \times 7 = 2100 \text{ calories}$

Part 3. Improper Fractions and Mixed Numbers (TG p. 2)

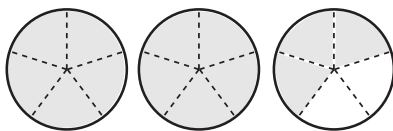
Questions 1–3

Shapes of fractions may vary. Area must be the same as shown.

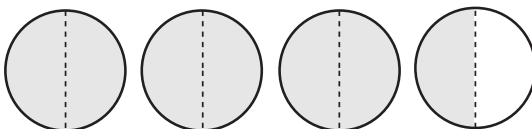
1. **A.** $1\frac{2}{3} = \frac{5}{3}$ **B.** $2\frac{3}{4} = \frac{11}{4}$
C. $1\frac{1}{6} = \frac{7}{6}$ **D.** $3\frac{1}{6} = \frac{19}{6}$
E. $1\frac{1}{6} = \frac{7}{6}$



2. **A.** $\frac{13}{5}$ **B.** $\frac{13}{4}$
C. $\frac{33}{10}$ **D.** $\frac{29}{8}$
E. $2\frac{3}{5} = \frac{13}{5}$



3. **A.** $2\frac{1}{6}$ **B.** $3\frac{1}{2}$
C. $3\frac{1}{3}$ **D.** $2\frac{4}{5}$
E. $\frac{7}{2} = 3\frac{1}{2}$



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Part 2 Solving Problems

Show or tell how to solve each problem. Choose an appropriate method for each: mental math, paper-and-pencil, or a calculator.

1. A mouse can have a litter of as many as 16 pups. A mouse can have up to 6 litters each year. About how many mice can one mouse produce in 6 years?
2. The U.S. government recommends that girls between the ages of 9 and 13 take in about 1900 calories of food a day. Boys of the same age should take in about 2200 calories.
 - A.** A boy follows these guidelines. Will he consume more or less than 25,000 calories in one week?
 - B.** In one week, how many more calories should a boy eat than a girl?

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Part 3 Improper Fractions and Mixed Numbers

Use the *Fraction Chart* or *Fractions on Number Lines Chart* in the *Student Guide Reference* section.

1. Complete each number sentence.
 - A.** $1\frac{2}{3} = \frac{n}{3}$ $n =$ _____ **B.** $2\frac{3}{4} = \frac{n}{4}$ $n =$ _____
 - C.** $1\frac{1}{6} = \frac{n}{6}$ $n =$ _____ **D.** $3\frac{1}{6} = \frac{n}{6}$ $n =$ _____

E. Draw a picture that represents your answer for Question 1C.
2. Write each mixed number as an improper fraction.
 - A.** $2\frac{3}{5} =$ _____ **B.** $3\frac{1}{4} =$ _____
 - C.** $3\frac{3}{10} =$ _____ **D.** $3\frac{5}{8} =$ _____

E. Draw a picture that represents your answer for Question 2A.
3. Write each improper fraction as a mixed number.
 - A.** $\frac{13}{6} =$ _____ **B.** $\frac{7}{2} =$ _____
 - C.** $\frac{10}{3} =$ _____ **D.** $\frac{14}{5} =$ _____

E. Draw a picture that represents your answer for Question 3B.

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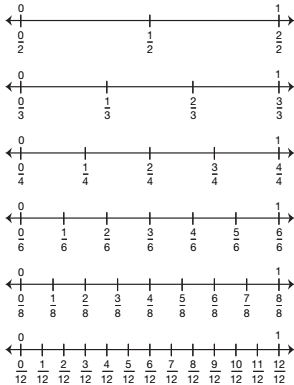
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Name _____ Date _____

Part 4 Fractions

Use the number lines below.

1. Name a fraction between $\frac{1}{6}$ and 1. _____
2. Name a fraction between $\frac{1}{3}$ and 1. _____
3. Name a fraction with a denominator of 4 that is between 0 and 1. _____
4. Name a fraction greater than $\frac{1}{2}$ with a denominator of 8. _____
5. Name a fraction between $\frac{6}{8}$ and 1. _____
6. Show or tell how you know $\frac{11}{12}$ is between $\frac{6}{8}$ and 1. _____



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Part 4. Fractions (TG p. 3)

Questions 1–6

Answers will vary. One possible solution is given for each.

1. $\frac{2}{6}$
2. $\frac{2}{3}$
3. $\frac{1}{4}$
4. $\frac{5}{8}$
5. $\frac{7}{8}$
6. I found $\frac{6}{8}$ on the number lines and then found $\frac{11}{12} \cdot \frac{11}{12}$ is closer to 1 but less than 1.

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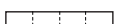
Part 5 Representing Fractions

Show the given numbers with circles or rectangles and number lines.

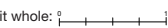
For circles, one circle is the unit whole:



For rectangles, this size rectangle is the unit whole:



For number lines, the segment from 0 to 1 is the unit whole:



Number	Representation
Example $1\frac{3}{4}$	
A. $\frac{7}{4}$	
B. $1\frac{4}{6}$	
C. $2\frac{3}{5}$	
D. $\frac{4}{3}$	

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Part 5. Representing Fractions (TG p. 4)

Questions A–D

A.

B.

C.

D.

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Part 6. A Fraction More (TG p.5)

Questions 1–4

1. A. $\frac{1}{3} = \frac{2}{6}$ B. $\frac{9}{12} = \frac{3}{4}$ C. $\frac{2}{6} = \frac{4}{12}$
 D. $\frac{5}{8} = \frac{15}{24}$ E. $\frac{20}{70} = \frac{2}{7}$ F. $\frac{7}{9} = \frac{28}{36}$
 G. $\frac{3}{5} = \frac{15}{25}$ H. $\frac{4}{40} = \frac{1}{10}$ I. $\frac{2}{3} = \frac{8}{12}$
2. A. $\frac{5}{4}$
 B. $\frac{17}{3}$
 C. $\frac{23}{8}$
 D. $\frac{18}{5}$
3. A. $2\frac{1}{4}$
 B. $3\frac{2}{6}$ or $3\frac{1}{3}$
 C. $10\frac{1}{2}$
 D. $1\frac{11}{12}$
4. A. $\frac{9}{12}, \frac{9}{10}, \frac{9}{5}, \frac{9}{2}$
 B. $\frac{1}{8}, \frac{7}{12}, \frac{5}{6}, \frac{8}{7}$
 C. $\frac{2}{6}, \frac{3}{6}, \frac{6}{6}, \frac{10}{6}$
 D. $\frac{3}{20}, \frac{9}{16}, \frac{9}{11}, \frac{3}{2}$

Part 7. Fraction Number Lines (TG p. 6)

Questions 1–7

Answers will vary. Possible solutions are given for each.

1. $\frac{2}{6}, \frac{3}{8}, \frac{4}{12}, \frac{5}{12}$
 2. $\frac{1}{6}, \frac{1}{8}, \frac{1}{12}, \frac{2}{12}, \frac{0}{2}, \frac{0}{3}, \frac{0}{4}, \frac{0}{6}, \frac{0}{8}, \frac{0}{12}$
 3. $\frac{2}{8}$
 4. $\frac{4}{6}, \frac{8}{12}$
 5. $\frac{2}{6}, \frac{2}{8}, \frac{3}{12}, \frac{4}{12}$
 6. $\frac{5}{6}, \frac{7}{8}, \frac{10}{12}$
 7. $\frac{2}{4}, \frac{3}{6}, \frac{4}{8}, \frac{6}{12}$

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Name _____ Date _____

Part 6 A Fraction More
 Use the *Fraction Chart* or *Fractions on Number Lines Chart* in the *Student Guide Reference* section.

1. Complete the following number sentences.

A. $\frac{1}{3} = \frac{2}{n}$ B. $\frac{9}{12} = \frac{n}{4}$ C. $\frac{2}{6} = \frac{n}{12}$
 $n = \underline{\hspace{2cm}}$ $n = \underline{\hspace{2cm}}$ $n = \underline{\hspace{2cm}}$

D. $\frac{5}{8} = \frac{15}{n}$ E. $\frac{20}{70} = \frac{n}{7}$ F. $\frac{7}{9} = \frac{n}{36}$
 $n = \underline{\hspace{2cm}}$ $n = \underline{\hspace{2cm}}$ $n = \underline{\hspace{2cm}}$

G. $\frac{3}{5} = \frac{n}{25}$ H. $\frac{4}{40} = \frac{1}{n}$ I. $\frac{2}{3} = \frac{8}{n}$
 $n = \underline{\hspace{2cm}}$ $n = \underline{\hspace{2cm}}$ $n = \underline{\hspace{2cm}}$

2. Write each mixed number as an improper fraction.
 A. $1\frac{1}{4} = \underline{\hspace{2cm}}$ B. $5\frac{2}{3} = \underline{\hspace{2cm}}$ C. $2\frac{7}{8} = \underline{\hspace{2cm}}$ D. $3\frac{3}{5} = \underline{\hspace{2cm}}$

3. Write each improper fraction as a mixed number.
 A. $\frac{9}{4} = \underline{\hspace{2cm}}$ B. $\frac{20}{6} = \underline{\hspace{2cm}}$ C. $\frac{21}{2} = \underline{\hspace{2cm}}$ D. $\frac{28}{12} = \underline{\hspace{2cm}}$

4. Put each of the following sets of fractions in order from smallest to largest.
 A. $\frac{9}{5}, \frac{9}{10}, \frac{9}{2}, \frac{9}{12}$ B. $\frac{5}{6}, \frac{8}{7}, \frac{7}{12}, \frac{1}{8}$

 C. $\frac{6}{6}, \frac{3}{6}, \frac{10}{6}, \frac{2}{6}$ D. $\frac{3}{20}, \frac{3}{2}, \frac{9}{11}, \frac{9}{16}$

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Part 7 Fraction Number Lines
 Use the fraction number lines.

1. Write three fractions that are between $\frac{1}{4}$ and $\frac{1}{2}$. _____, _____, _____
 2. Write four fractions that are less than $\frac{1}{4}$. _____, _____, _____, _____
 3. Name a fraction equivalent to $\frac{1}{4}$. _____
 4. Name two fractions that are equivalent to $\frac{2}{3}$. _____, _____
 5. Name three fractions between $\frac{1}{6}$ and $\frac{3}{8}$. _____, _____, _____
 6. Name two fractions between $\frac{3}{4}$ and $\frac{11}{12}$. _____, _____
 7. Name three fractions that are equivalent to $\frac{1}{2}$. _____, _____, _____

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