

Unit 5: Home Practice

Part 1 Triangle Flash Cards: Square Numbers

Study for the quiz on the multiplication and division facts for the square numbers. Take home your *Triangle Flash Cards: Square Numbers* and your list of facts you need to study.

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 highest number on each card is lightly shaded.) This number will be the answer to the multiplication fact. Multiply the two uncovered numbers.

To quiz you on a division fact, your family member can cover one of the unshaded numbers. Then use the two uncovered numbers to solve a division fact.

Ask your family member to mix up the multiplication and division facts. He or she should sometimes cover the highest number and sometimes cover one of the smaller numbers.

Your teacher will tell you when the quiz on the square numbers will be given.

Part 2 Solving Problems

Solve the following problems. Choose an appropriate method for each: mental math, paper and pencil, or a calculator. Explain your solutions. Use a separate sheet of paper to show your work.

1. The Yum Yum Deli makes sandwich trays for parties.
 - A. Twenty-four sandwiches come on a large tray. If a company orders 27 trays for a party, how many sandwiches are they ordering?
 - B. There will be 527 people attending the company party. Can each person have more than one sandwich? Explain.
2. Each of the 527 guests eats one sandwich. Twenty-nine of the guests eat two sandwiches. How many sandwiches are left over?
3.
 - A. Of the guests attending, $\frac{7}{12}$ are current employees. $\frac{1}{6}$ are retired employees. The rest are family members. What fraction of the guests are family members?
 - B. Show or tell how you found your answer.

Part 3 Practicing the Operations

Use the strategies menus for addition, subtraction, and multiplication in the *Student Guide Reference* section.

1. Solve the following problems in your head. Estimate the answers to Questions 1H and 1I.

A. $240 + 60 = \underline{\hspace{2cm}}$

B. $2089 + 401 = \underline{\hspace{2cm}}$

C. $1250 - 300 = \underline{\hspace{2cm}}$

D. $10,000 - 6700 = \underline{\hspace{2cm}}$

E. $3800 + 1200 = \underline{\hspace{2cm}}$

F. $17,000 - 8800 = \underline{\hspace{2cm}}$

G. $5300 + 7700 = \underline{\hspace{2cm}}$

H. Estimate: 89×18

I. Estimate: 1270×50

2. Solve the following problems using a paper-and-pencil method or mental math. Estimate to be sure your answers are reasonable.

A. $473 + 1548 = \underline{\hspace{2cm}}$

B. $28 \times 59 = \underline{\hspace{2cm}}$

C. $7034 \times 9 = \underline{\hspace{2cm}}$

D. $3704 - 478 = \underline{\hspace{2cm}}$

E. $3678 + 2935 = \underline{\hspace{2cm}}$

F. $43 \times 69 = \underline{\hspace{2cm}}$

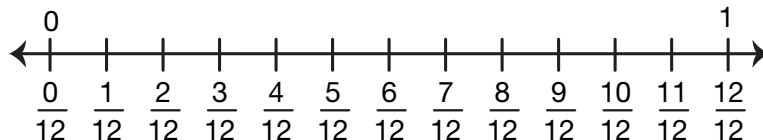
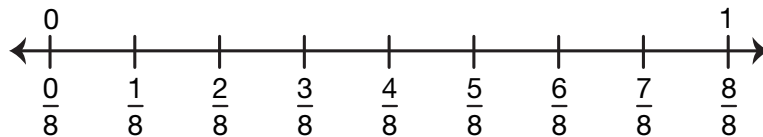
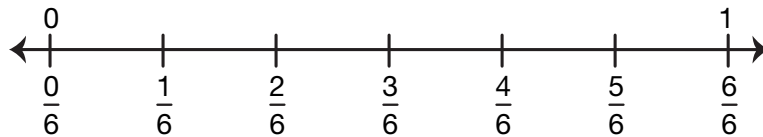
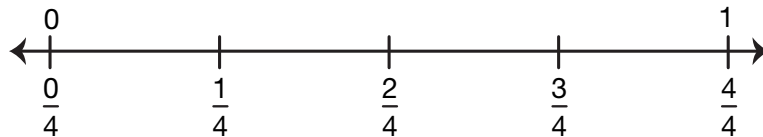
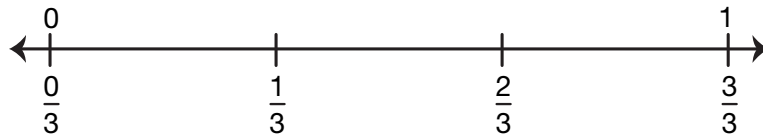
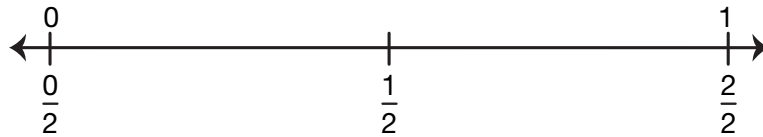
G. $47 \times 56 = \underline{\hspace{2cm}}$

H. $8635 - 7946 = \underline{\hspace{2cm}}$

Part 4 Fraction Number Lines

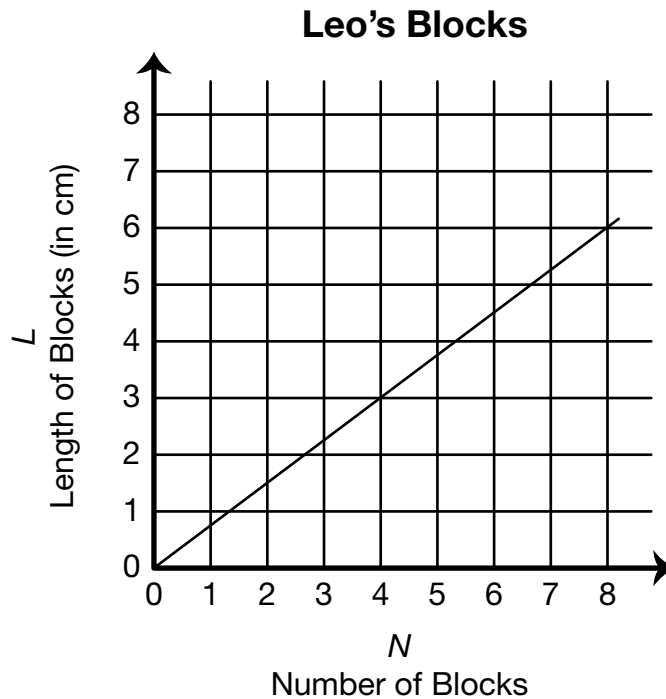
You may use the fraction number lines to complete Questions 1-7.

- 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 $\frac{1}{2}$. _____, _____, _____



Part 5 Ratios

Leo made this graph. It shows the number of blocks and their total length in centimeters.



Use the graph to answer the following questions. Show or tell how you solved each problem. If you find more than one way to solve the problem, describe each method. You may write on the graph.

1. Write the ratio of length to the number of blocks as a fraction. _____
2. Find the length of four blocks. _____
3. How many blocks will measure six centimeters? _____
4. Find the length of 40 blocks. _____
5. **A.** Find the length of 60 blocks. _____
B. Show or tell how you solved Question 5A.

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Part 2. Solving Problems (TG p. 1)
Questions 1–3

1. A. 648 sandwiches
B. No; there will be enough for each person to have 1 sandwich with 121 sandwiches left over.
2. 92 sandwiches left
3. A. $\frac{3}{12}$ or $\frac{1}{4}$ of the guests are family members.
B. Possible response: I know that $\frac{1}{6} = \frac{2}{12}$ so I added $\frac{7}{12} + \frac{2}{12} = \frac{9}{12}$. Then I thought about how many more twelfths I would need to make a whole. I know $\frac{9}{12} + \frac{3}{12} = \frac{12}{12}$ or 1 whole. $\frac{3}{12}$ is the same as $\frac{1}{4}$.

Part 3. Practicing The Operations (TG p. 2)
Questions 1–2

1. A. 300 B. 2490
C. 950 D. 3300
E. 5000 F. 8200
G. 13,000 H. 1800
I. 65,000
2. A. 2021 B. 1652
C. 63,306 D. 3226
E. 6613 F. 2967
G. 2632 H. 689

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B. Show or tell how you found your answer.

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Name _____ Date _____

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G. $47 \times 56 =$ _____	H. $8635 - 7946 =$ _____

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Name _____ Date _____

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 You may use the fraction number lines to complete Questions 1-7.

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

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Part 4. Fraction Number Lines (TG p. 3)
Questions 1-7

- Possible responses: $\frac{1}{3}, \frac{2}{6}, \frac{3}{8}, \frac{4}{12}, \frac{5}{12}$
- Possible responses: $\frac{1}{6}, \frac{1}{8}, \frac{1}{12}, \frac{2}{12}$
- Possible responses: $\frac{2}{8}, \frac{3}{12}$
- Possible responses: $\frac{4}{6}, \frac{8}{12}$
- Possible responses: $\frac{1}{3}, \frac{1}{4}, \frac{2}{6}, \frac{2}{8}, \frac{3}{12}, \frac{4}{12}$
- Possible responses: $\frac{5}{6}, \frac{7}{8}, \frac{10}{12}$
- Possible responses: $\frac{2}{4}, \frac{3}{6}, \frac{4}{8}, \frac{6}{12}$

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Name _____ Date _____

Part 5 Ratios
 Leo made this graph. It shows the number of blocks and their total length in centimeters.

Use the graph to answer the following questions. Show or tell how you solved each problem. If you find more than one way to solve the problem, describe each method. You may write on the graph.

- Write the ratio of length to the number of blocks as a fraction. _____
- Find the length of four blocks. _____
- How many blocks will measure six centimeters? _____
- Find the length of 40 blocks. _____
- A. Find the length of 60 blocks. _____
 B. Show or tell how you solved Question 5A.

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Part 5. Ratios (TG p. 4)
Questions 1-5

- $\frac{3 \text{ cm}}{4 \text{ blocks}}$
- 3 cm
- 8 blocks
- 30 cm
- A. 45 cm
 B. I know that every 3 cm is equal to 4 blocks, so $\frac{3 \text{ cm}}{4 \text{ blocks}} = \frac{?}{60 \text{ blocks}}$
 First I thought $4 \times ? = 60$ and got 15. Then I multiplied 3×15 to get 45, so 45 cm will equal 60 blocks.

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