Teacher Guide

Part 2. Practicing Multiplication and Division (TG p. 1)
Questions A–I

A. 4856	**B.** 1566	**C.** 145
D. 46 R6	**E.** 23,155	**F.** 153 R3
G. 2312	**H.** 82 R3	**I.** 413

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

I. **A.** $\frac{9}{8}$ **B.** $\frac{9}{12}$ or $\frac{3}{4}$

    C. $\frac{1}{12}$ **D.** $\frac{3}{10}$

2. **A.** 8 furlongs

    B. 16 tablespoons

    C. 3 feet

    D. 15 minutes

    E. more; Possible response:
$\frac{12}{24} = \frac{1}{2}$
Since $\frac{14}{24} > \frac{12}{24}$, 14 karat gold is more than $\frac{1}{2}$ pure gold.

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Unit 6: Home Practice

Part 1 Triangle Flash Cards: Last Six Facts

Study for the quiz on the multiplication and division facts for the last six facts. Take home your *Triangle Flash Cards: Last Six Facts* (4×6, 4×7, 4×8, 6×7, 6×8, and 7×8) 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 slightly 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 last six facts will be.

Part 2 Practicing Multiplication and Division

Use paper and pencil to solve the following problems. Estimate to be sure your answers are reasonable. Use a separate sheet of paper to show your work.

A. $607 \times 8 =$ _____	**B.** $174 \times 9 =$ _____	**C.** $435 \div 3 =$ _____
D. $420 \div 9 =$ _____	**E.** $4631 \times 5 =$ _____	**F.** $768 \div 5 =$ _____
G. $68 \times 34 =$ _____	**H.** $577 \div 7 =$ _____	**I.** $1652 \div 4 =$ _____

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Part 3 Fractions

I. Solve the following addition and subtraction problems.

A. $\frac{1}{2} + \frac{5}{8} =$ _____   **B.** $\frac{2}{3} + \frac{1}{12} =$ _____

C. $\frac{7}{12} - \frac{1}{2} =$ _____   **D.** $\frac{3}{5} - \frac{3}{10} =$ _____

2. Draw pictures to help you answer these questions.

A. One furlong is $\frac{1}{8}$ mile. How many furlongs equal one mile?

B. A tablespoon is $\frac{1}{16}$ of a cup. How many tablespoons equal one cup?

C. One foot is $\frac{1}{3}$ of a yard. How many feet equal one yard?

D. 5 minutes is $\frac{1}{12}$ of an hour. How many minutes equal $\frac{3}{12}$ of an hour?

E. 24 karat gold is pure gold. 1 karat gold means that 1 out of 24 parts is pure. 10 karat gold is $\frac{10}{24}$ or $\frac{5}{12}$ pure. Is 14 karat gold more or less than $\frac{1}{2}$ pure gold? Explain your thinking.
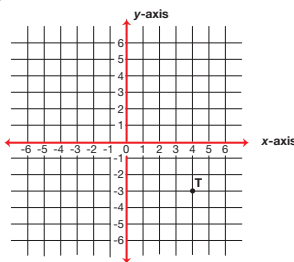
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Part 4 Working with Coordinates

1. Name the coordinates of point T on the graph.

2. Plot three other points on the graph so that you can form a rectangle when you connect the points. Label each with a letter.

3. Use ordered pairs to list the coordinates of the three points you plotted.

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Part 5 Travel Time Problems

Choose an appropriate method to solve each of the following problems. For some questions you may need to find an exact answer, while for others you may only need an estimate. For each question, you may choose to use paper and pencil, mental math, or a calculator. Use a separate sheet of paper to show how you solved each problem.

1. John and his family are driving from Chicago, Illinois, to Phoenix, Arizona. His family plans to take 4 days to make this trip. Phoenix is 1776 miles from Chicago. About how many miles should they drive each of the four days if they want to drive about the same amount each day?

2. On the first day of the trip, John's family leaves home at 7:30 AM. They drive for 4 hours before stopping to eat lunch. If they average 62 miles per hour, how far did they drive before stopping?

3. At the end of the second day of driving, John's family has traveled a total of 957 miles and has spent $16\frac{1}{2}$ hours on the road. About how many miles per hour did they average so far on their trip?

4. One night John's family stops for pizza. They order a large pizza that is $\frac{1}{2}$ pepperoni and $\frac{1}{2}$ cheese. It is cut into 16 slices of the same size. If John eats one slice of pepperoni and one slice of cheese, what fraction of the pizza is this?

5. In Phoenix, John's family stays in a hotel for 7 nights. The hotel costs $97.00 per night including tax. What is the total bill for their 7-night stay?

6. When John's family arrives home, he calculates the number of gallons of gasoline they used during their trip to and from Phoenix. The car averages about 24 miles per gallon.
   A. How many gallons of gas did they use during the drive to and from Phoenix?
   B. If the average cost of gasoline is $3.57 per gallon, how much money did John's family spend on gasoline during the trip?
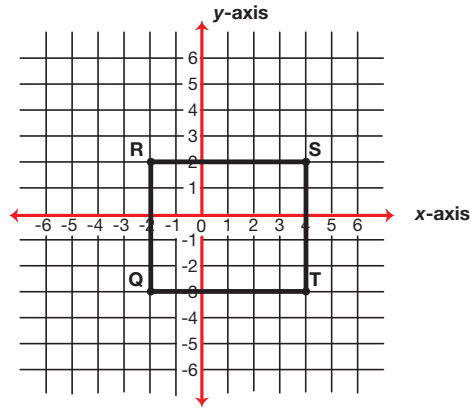
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Part 4. Working with Coordinates (TG p. 3)
Questions 1–3

1. $(4, -3)$

2. Answers will vary. A sample rectangle is shown below.

3. Answers will vary. The coordinates of the vertices of the sample rectangle shown in Question 2 are: Q $(-2, -3)$, R $(-2, 2)$, and S $(4, 2)$.

Part 5. Time Travel Problems (TG p. 4)
Questions 1–6

1. Possible repsonse: about 450 miles per day

2. 248 miles

3. Possible repsonse: about 50 miles per hour $(1000 \div 20 = 50)$

4. $\frac{2}{16}$ or $\frac{1}{8}$

5. $679

6. Since the car averages about 24 miles per gallon, it is appropriate to answer both Questions 6A and 6B with an estimate.
   A. Possible repsonses:
      $1800 \div 20 = 90$ gallons $\times 2$,
      $1800 \div 30 = 60$ gallons $\times 2$,
      or an estimate between
      120 gallons and 180 gallons.
   B. Possible repsonse:
      120 gallons $\times$ $3.50 = $420