Objectives:
- Students will memorize the multiplication table, as evidenced by them passing "minute quizzes."
- Students will multiply whole numbers by fractions, as evidenced by them completing a warm-up worksheet where they do so.
- Students will, given a rectangular whole, draw fractions of the whole, as evidenced by them completing a homework assignment where they do so.
- Students will, given a rectangular fraction of a whole, draw the whole, as evidenced by them completing a homework assignment where they do so.
- Students will find fractions of collections of objects, as evidenced by them completing a homework assignment where they do so.

Student Materials on Desk Corner:
- Homework #2-29
- Homework Checker
- Readiness Checker

Student Materials for Class:
- Homework Log
- Binder Paper
- Pencils

Teacher Materials:
- "Warm-up 2-30" for each student
- "Minute Quiz 2-30" for each student
- "Homework #2-29" answer key and grading roster for TA
- "Homework #2-30" handout for each student

Homework:
- Finish Homework #2-30
- ALEKS

Time	Activity
10 min	**MINUTE QUIZ, WARM-UP, HOMEWORK COLLECTION, AND ATTENDANCE** **Minute Quiz and Warm-up** When the bell rings, quickly go around and put the **minute quiz** on each student's desk, facedown. Then, start everyone on the quiz at the same time and give everyone one minute. While students are working on the quiz, pass out the **warm-ups** so that students can work on them once they're done with the minute quiz. Also, stamp the **readiness checkers** of students who were ready when the bell rang and had their readiness checkers out. **Homework Collection and Attendance** Instruct the TA go around and collect **homework** and stamp **homework checkers**. Give the TA the answer key and have him or her grade the homework that was collected. During this time, take **attendance**. **Warm-up & Notes Checker** Once all the homework is collected, go around and stamp the students' "Warm-up and Notes Checkers."
25 min	**LESSON: WHOLE-PART CONVERSION AND FRACTIONS OF COLLECTIONS** **Notes** Follow the handwritten Cornell Notes. Once students are finished, go around and stamp the students' "Warm-up and Notes Checkers."
20 min	**CLASSWORK** Pass out the **homework/classwork** handout and have students write down the assignment on their homework logs. Have the TA pass out **fraction circles** and write own which student has which set of fraction circles. Students should use the fraction circles to complete Homework #2-26, which will serve as the classwork.
25 min	**ALEKS** When students finish their classwork, they should continue with **ALEKS**. Use this student work time to **return graded homework**.

Numeracy
Minute Quiz 2-30 A

Name:
Date: Period:

Solve the following multiplication problems. You have exactly one minute!

4 • 2 =   8 • 9 =   8 • 9 =

3 • 10 =   4 • 6 =   1 • 10 =

12 • 7 =   4 • 9 =   11 • 5 =

4 • 9 =   11 • 8 =   12 • 10 =

Numeracy
Minute Quiz 2-30 B

Name:
Date: Period:

Solve the following multiplication problems. You have exactly one minute!

5 • 4 =   10 • 11 =   10 • 1 =

2 • 1 =   3 • 4 =   12 • 4 =

11 • 10 =   10 • 9 =   1 • 4 =

7 • 8 =   1 • 11 =   10 • 1 =

Numeracy   Name:
Minute Quiz 2-30 C   Date: Period:

Solve the following multiplication problems. You have exactly one minute!

8 • 10 =   11 • 9 =   2 • 9 =

8 • 4 =   9 • 1 =   2 • 1 =

7 • 1 =   10 • 4 =   11 • 7 =

9 • 3 =   11 • 9 =   4 • 12 =

Numeracy   Name:
Warm-up 2-30   Date: Period:

Multiply the following special fractions. Remember to simplify your answers.

1) $\dfrac{3}{4} \cdot 8$
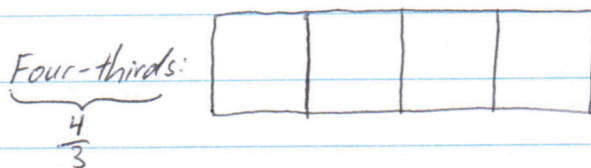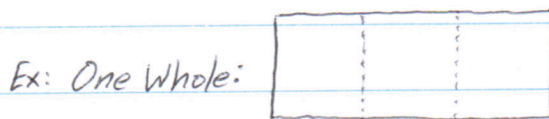
2) $\dfrac{2}{3} \cdot 6$

3) $\dfrac{4}{5} \cdot 10$

4) $\dfrac{5}{7} \cdot 7$
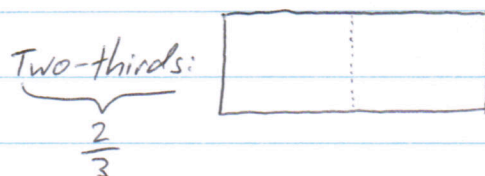

Whole-Part Conversion and Fractions of Collections

Section → <u>Whole-to-Part</u>

In real life, we sometimes get a whole pizza and need to find a part of it.

Ex: One Whole:

Four-thirds:

$$\frac{4}{3}$$

Section → <u>Part-to-Whole</u>

In real life, we sometimes get part of a pizza and need to find the whole thing.

Ex: One Whole:

Two-thirds:

$$\frac{2}{3}$$

Section → <u>Fractions of Collections</u>

To find fractions of a bunch of objects, we must remember that "of" means "multiply."

Ex: Find two-thirds of the following collection of apples:

$$\frac{2}{3} \text{ of } 6 = \frac{2}{3} \cdot 6 = \frac{2}{3} \cdot \frac{6}{1} = \frac{12}{3} = \boxed{4 \text{ apples}}$$

Given a whole pizza, draw the fraction.

1)

One Whole:

One-Fourth:

2) One Whole:

Three-Halves:

Given the fraction, draw the whole pizza.

3) One Whole:

Four-Fifths:

4) One Whole:

Five-Fourths:

For each problem, find the fraction of the collection.

5) Find one-fourth of the following collection of apples:

6) Find one-third of the following collection of cups:

7) Find three-fifths of the following collection of paper clips:

8) Find two-thirds of the following collection of basketballs:

9) Find one-half of the following collection of laptops:

10) Find three-fourths of the following collection of pencils:

11) Find three-halves of the following collection of books:

12) Find two-thirds of the following collection of water bottles:

13) Find one-half of the following collection of oranges: