Objectives:
- Students will memorize the multiplication table, as evidenced by them passing "minute quizzes."
- Students will divide positive integers to find the quotient and remainder, as evidenced by them completing a warm-up worksheet.
- Students will convert between mixed numbers and improper fractions, as evidenced by them completing a homework assignment where they do so.

Student Materials on Desk Corner:
- Homework #2-1
- Homework Checker
- Readiness Checker

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

Teacher Materials:
- "Warm-up 2-2" for each student
- "Minute Quiz 2-2" for each student
- "Homework #2-1" answer key and grading roster for TA
- "Homework #2-2" handout for each student

Homework:
- Homework #2-2

Time	Activity
Before Bell	**DO NOW** As students enter the classroom, shake hands and give them a copy of the **warm-up**. Remind students that there is a minute quiz, so students need to be seated quietly with a pencil when the bell rings.
5 min	**MINUTE QUIZ, HOMEWORK COLLECTION, AND WARM-UP** **Minute Quiz** 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, stamp the **readiness checkers** of students who were ready when the bell rang and had their readiness checkers out. **Homework Collection** 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. **Warm-up** After the minute quiz, students should work on the **warm-up** while you take **attendance**.
30 min	**LESSON: MIXED NUMBERS AND IMPROPER FRACTIONS** **Notes** Follow the handwritten Cornell Notes. **Homework** Pass out the ""Homework #2-2" handout and have students write down the assignment on their homework logs. Remind students that you will be available after school for office hours.
45 min	**ALEKS** Students should continue with **ALEKS**. Use this student work time to **return graded homework**.

Numeracy
Minute Quiz 2-2 A

Name:
Date: Period:

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

$10 \cdot 12 =$ $2 \cdot 11 =$ $6 \cdot 2 =$

$4 \cdot 11 =$ $2 \cdot 6 =$ $10 \cdot 1 =$

$6 \cdot 11 =$ $3 \cdot 9 =$ $2 \cdot 12 =$

$10 \cdot 7 =$ $5 \cdot 12 =$ $4 \cdot 11 =$

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

6 • 9 =   3 • 5 =   2 • 5 =

6 • 7 =   8 • 10 =   2 • 9 =

5 • 8 =   11 • 10 =   11 • 1 =

7 • 11 =   7 • 8 =   11 • 8 =

Numeracy
Minute Quiz 2-2 C

Name:
Date: Period:

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

10 • 8 =   7 • 5 =   2 • 1 =

9 • 10 =   12 • 12 =   8 • 2 =

4 • 2 =   4 • 2 =   1 • 5 =

2 • 11 =   6 • 1 =   11 • 5 =

Name:

Date: Period:

Solve the following division problems by finding the quotient and the remainder.

1) 12 ÷ 4   2) 24 ÷ 8   3) 25 ÷ 10   4) 28 ÷ 3

5) 583 ÷ 5   6) 928 ÷ 5   7) 583 ÷ 23   8) 6937 ÷ 45

Improper Fractions

Section → _Intro_

Say you ate $2\frac{1}{4}$ pizzas, and every pizza has 4 slices:

You can write this as a fraction:

$$\frac{\#\text{ of slices}}{\#\text{ of slices in a pizza}} = \frac{2 \cdot 4 + 1}{4} = \frac{8+1}{4} = \frac{9}{4}$$

This is called an improper fraction. An improper fraction has (top #) ≥ (bottom #).

Section → _Mixed Number → Improper Fraction_

Ex: Write $2\frac{3}{8}$ as an improper fraction.

$$2\frac{3}{8} = \bigoplus \bigoplus \triangleleft \triangleleft \triangleleft = \frac{2 \cdot 8 + 3}{8} = \frac{16+3}{8} = \frac{19}{8}$$

Ex: $1\frac{2}{4} = \bigoplus \triangle \triangle = \frac{1 \cdot 4 + 2}{4} = \frac{4+2}{4} = \frac{6}{4}$

Ex: $38\frac{1}{2} = \frac{38 \cdot 2 + 1}{2} = \frac{76+1}{2} = \frac{77}{2}$

Section → _Improper Fraction → Mixed Number_

Ex: Write $\frac{7}{3}$ as a mixed number.

$$\frac{7}{3} = \bigoplus \bigoplus \triangle = 2\frac{1}{3}$$

Ex: $\frac{5}{4} = \bigoplus \triangle = 1\frac{1}{4}$

Ex: $\frac{90}{4}$ = ⊕ ... ⊕ △△ = $22\frac{2}{4}$

$$\begin{array}{r} 22 \\ 4\overline{)90} \\ -8\downarrow \\ \hline 10 \\ -8 \\ \hline 2 \end{array}$$

22 of
these

Part 1: Convert the following mixed numbers into improper fractions. An example has been done for you.

Ex.) $2\frac{3}{4} = \frac{2\cdot 4 + 3}{4} = \frac{8+3}{4} = \frac{11}{4}$

1) $3\frac{6}{7}$

2) $1\frac{1}{2}$

3) $6\frac{7}{10}$

4) $2\frac{4}{5}$

5) $4\frac{2}{6}$

Part 2: Convert the following improper fractions into mixed numbers. An example has been done for you.

Ex.) $\frac{7}{3}$

$3\overline{)7} \Rightarrow \frac{7}{3} = 2\frac{1}{3}$
$\underline{6}$
1

6) $\frac{12}{7}$

7) $\frac{24}{5}$

8) $\frac{79}{9}$

9) $\frac{68}{6}$

10) $\frac{23}{4}$