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 find the fraction of a collection of objects, as evidenced by them completing a homework assignment where they do so.

Student Materials on Desk Corner:

- Homework #2-18
- Homework Checker
- Readiness Checker

Teacher Materials:

- "Warm-up 2-19" for each student
- "Minute Quiz 2-19" for each student
- "Homework #2-18" answer key and grading roster for TA
- "Homework #2-19" handout for each student

Time Activity Before DO NOW Bell 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 guiz, 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**. 35 min LESSON: FRACTIONS OF COLLECTIONS Notes Follow the handwritten Cornell Notes. Homework Pass out the ""Homework #2-19" handout and have students write down the assignment on their homework logs. 45 min ALEKS Students should continue with ALEKS. Use this student work time to return graded homework.

Student Materials for Class:

Homework #2-19

- Homework Log
- Binder Paper
- Pencils

Homework:

Numeracy	Name:	
Minute Quiz 2-19 A	Date:	Period:

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

5 • 7 =	11 • 5 =	6 • 12 =
5 • 12 =	10 • 8 =	11 • 10 =
10 • 2 =	3 • 3 =	10 • 2 =
4 • 6 =	7 • 5 =	2 • 3 =

Numeracy	Name:	
Minute Quiz 2-19 A	Date:	Period:

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

5 • 7 =	11 • 5 =	6 • 12 =
5 • 12 =	10 • 8 =	11 • 10 =
10 • 2 =	3 • 3 =	10 • 2 =
4 • 6 =	7 • 5 =	2 • 3 =

Numeracy	Name:	
Minute Quiz 2-19 A	Date:	Period:

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

5 • 7 =	11 • 5 =	6 • 12 =
5 • 12 =	10 • 8 =	11 • 10 =
10 • 2 =	3 • 3 =	10 • 2 =
4 • 6 =	7 • 5 =	2 • 3 =

Numeracy	Name:	
Minute Quiz 2-19 B	Date:	Period:

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

7 • 8 =	7 • 8 =	4 • 12 =
4 • 7 =	6 • 4 =	2•9=
9•9=	1•9=	11 • 11 =
12 • 7 =	7 • 7 =	12 • 11 =

Numeracy	Name:	
Minute Quiz 2-19 B	Date:	Period:

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

7 • 8 =	7 • 8 =	4 • 12 =
4 • 7 =	6 • 4 =	2 • 9 =
9 • 9 =	1 • 9 =	11 • 11 =
12 • 7 =	7 • 7 =	12 • 11 =

Numeracy	Name:	
Minute Quiz 2-19 B	Date:	Period:

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

7 • 8 =	7 • 8 =	4 • 12 =
4 • 7 =	6 • 4 =	2 • 9 =
9 • 9 =	1 • 9 =	11 • 11 =
12 • 7 =	7 • 7 =	12 • 11 =

Numeracy	Name:	
Minute Quiz 2-19 C	Date:	Period:

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

4 • 7 =	5 • 9 =	7•3=
10 • 8 =	12 • 5 =	12 • 4 =
7 • 10 =	8 • 11 =	1 • 3 =
3 • 4 =	6 • 5 =	8 • 2 =

Numeracy	Name:	
Minute Quiz 2-19 C	Date:	Period:

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

4 • 7 =	5 • 9 =	7 • 3 =
10 • 8 =	12 • 5 =	12 • 4 =
7 • 10 =	8 • 11 =	1 • 3 =
3•4=	6 • 5 =	8 • 2 =

Numeracy	Name:	
Minute Quiz 2-19 C	Date:	Period:

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

4 • 7 =	5 • 9 =	7 • 3 =
10 • 8 =	12 • 5 =	12 • 4 =
7 • 10 =	8 • 11 =	1•3=
3 • 4 =	6 • 5 =	8 • 2 =

Numeracy	Name:	
Warm-up 2-19	Date:	Period:

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

1)
$$\frac{3}{4} \cdot 8$$

2) $\frac{2}{3} \cdot 6$
3) $\frac{4}{5} \cdot 10$
4) $\frac{5}{7} \cdot 7$

Numeracy	Name:	
Warm-up 2-19	Date:	Period:

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

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

3)
$$\frac{4}{5} \cdot 10$$
 4) $\frac{5}{7} \cdot 7$

vanciac j Tom Wong Lesson 2-19 11/28/08 Fractions of Collections Section -> Introduction So far, we've been finding fractions of one whole. Ex: = + Today, we'll be finding fractions of collections (a bunch of) objects. To do this, we will use the following fact: "of" means multiply. Section -> Examples Ex: Find three-fourths of the following collection of apples: 000000000 There are 8 apples. So, we are finding three-fourths $of 8 = \frac{3}{4} \cdot 8 = \frac{3}{4} \cdot \frac{8}{7} = \frac{24}{4} = 6.$ So, the answer is 6 apples. Ex: Find two-thirds of the following collection of Basketballs: $\frac{2}{3} \cdot 6 = \frac{2}{3} \cdot \frac{6}{1} = \frac{12}{3} = \frac{4}{3} \text{ basketballs}$ Ex: Find three-halves of the following collection of flowers: \$ \$ \$ \$ $\frac{3}{2} \cdot 4 = \frac{3}{7} \cdot \frac{4}{7} = \frac{12}{7} = 6$ flowers

Name	
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Explore a Fraction of a Set

Remember! The bottom number of a fraction tells how many equal parts in all.

١.	Draw 5 leaves.	66
	Color the rest brown. What fraction is brown?	are brown
2.	Draw 8 bows. Color some red. Color some blue. Color the rest green. What fraction is blue?	are blue
3.	Draw 6 bananas. Color some yellow. Color the rest green. What fraction is green?	are green
4.	Draw 10 circles. Color some red. Color some green Color some orange. Color the rest purple. What fraction is red?	are red
5.	Draw 12 apples. Color 6 red Color some green. Color the rest yellow. What fraction is yellow?	are yellow

Notes for Home Your child explored fractions of sets. *Home Activity:* Have your child tell what fraction of the apples in Exercise 5 are green and what fraction is red.

Answers will vary.	Remember! The bottor number of a fraction tells many equal parts in al	n how I.	
I. Draw 5 leaves.			66
Color some orange			
Color the rest brow	'n.		_ are brown
What fraction is bro	own?		
2. Draw 8 bows. Colo	r		
some red. Color so	me		
blue. Color the rest	green.		_ are blue
What fraction is blu	e?		
3. Draw 6 bananas. C	Color		
some yellow. Color	the		
rest green.			_ are green
What fraction is gre	een?		
4. Draw 10 circles. Co	olor		
some red. Color so	me green.		
Color some orange	. Color		_ are red
the rest purple.			
What fraction is rec	1?		
5. Draw 12 apples. Co	olor 6 red.		
Color some green.	Color the		
rest yellow.			_ are yellow
What fraction is yel	low?		

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Ex: Find one-third of the following collection of apples:





1) Find one-fourth of the following collection of cups:



2) Find two-thirds of the following collection of paper clips:

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3) Find three-fifths of the following collection of apples:



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



5) Find two-thirds of the following collection of pencils:

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



7) Find two-fifths of the following collection of basketballs:



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

9) Find three-fifths of the following collection of puppies:



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



11) Find three-fourths of the following collection of hats:



12) Find one-third of the following collection of cell phones:

13) Find two-thirds of the following collection of toilet paper:

14) Find one-half of the following collection of guitars:

15) Find five-sevenths of the following collection of roses:

