

Tier 3 Intervention Lessons

5.NF.7b

Learning Target: I will divide a whole number by a unit fraction

Readiness for 6.NS.1: Multiply and divide fractions

© OAISD, November 2018

Table of Contents

Planning Guide p. 3	3
Sessions 1 through 8: Lesson Resources p. 4-5	57
Independent Practice Activities: "Division Match-up!" p. 58-6	65
Classroom Poster: Questions for Solving Word Problems p. 60	6
Tier 1 Support Classroom Poster: Steps for Solving Word Problems p. 6	7



Tier 3 Intervention Planning Guide

Learning Target: I will divide a whole number by a unit fraction

Readiness for multiplying and dividing fractions

	Recommended Actions		
Beginning (5 min.)	 Review the learning target with the whole group Ask each student to set a goal for the day based on their previous Quick Check Score Have each student use a highlighter to plot their goal for the day 		
Middle (15 min.)	 Model solving a word problem – "I do" (Sessions 1, 3 and 6 only) Guided Practice – "We do" Sessions 1 and 2: Fold fraction squares to divide a whole number by a unit fraction Sessions 3, 4 and 5: Draw on fraction squares to divide a whole number by a unit fraction Sessions 6, 7 and 8: Use multiplication to divide a unit fraction by a whole number 		
End (10 min.)	 Bring the students back together. Ask students to reflect on their progress towards the learning target What did I learn today about dividing a whole number by a unit fraction? How confident do you feel about dividing a whole number by a unit fraction on my own? (Thumbs up, down, or sideways) Assess each student's progress using the next Quick Check form Guide students to self-correct their Quick Check Guide students to chart their progress in their Growth Chart If not using Delta Math lessons, record the activity in the table Collect each student's Quick Check and Growth Chart 		
After Session 6	 Differentiation Options: Allow students who met the learning goal to work independently while others do the guided practice during the next session Exit students who met the learning goal for a third time Problem solve with a team to plan additional support for students who do not meet the learning goal within 8 sessions 		



Session 1: Modeling (I Do)

Learning Target: I will divide a whole number by a unit fraction

Readiness for multiplying and dividing fractions

Zach has 2 pounds of ground beef and is planning to make hamburgers. If he wants to make each hambuger

equal to $\frac{1}{3}$ of a pound, how many hamburgers can he make?

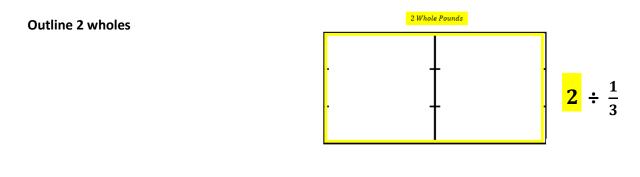


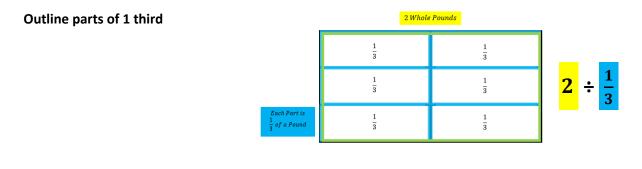
Session 1: Modeling (I Do – Visual Support)

Learning Target: I will divide a whole number by a unit fraction

Readiness for multiplying and dividing fractions

Zach has 2 pounds of ground beef and is planning to make hamburgers. If he wants to make each hambuger equal to $\frac{1}{3}$ of a pound, how many hamburgers can he make?





Find how many parts that make 2 wholes	2 Whole	Pounds	
	$\left(\frac{1}{3}\right)$	$\left(\frac{1}{3}\right)$	
	$\frac{1}{3}$	$\left(\frac{1}{3}\right)$	$\frac{2}{2} \div \frac{1}{3} = 6$
Each Part is $\frac{1}{3}$ of a Pound	$\left(\frac{1}{3}\right)$	$\left(\frac{1}{3}\right)$	



Session 1: Modeling (I Do - Teacher Notes)

Learning Target: I will divide a whole number by a unit fraction

Readiness for multiplying and dividing fractions

Zach has 2 pounds of ground beef and is planning to make hamburgers. If he wants to make each hambuger

equal to $\frac{1}{2}$ of a pound, how many hamburgers can he make?

I am going to think aloud to model solving this problem.

Your job is to watch, listen, think and ask questions.

First, it is important to know what the problem is about. This problem is about Zach making hamburgers. Second, I need to determine what I need to find. I need to find how many hamburgers Zach can make. Third, I need to determine what I know. I know that he has 2 pounds of ground beef and plans to make each hambuger equal to $\frac{1}{3}$ of a pound. Fourth, I need to figure out what I can try. I am going to try modelling this situation using square pieces of paper. (Hold up 2 squares connected together from the 2^{nd} set of squares on page 10, write 2 whole pounds on the Modeling page and outline the 2 squares with yellow highlighter.) I will begin by folding each square into thirds to represent each hamburger. (Fold the squares into thirds...outline and label each third using a blue highlighter.) Each section represents 1 of the hamburgers...we need to find how many make up 2 wholes. (Circle each label.) $\left(\frac{1}{3}\right)$ $\left(\frac{1}{3}\right)$ I see that 2 whole pounds are made of 6 equal parts of 1 third. (Count the 6 sections.) $\frac{1}{2} \div \frac{1}{2}$ $\begin{pmatrix} 1\\ \overline{3} \end{pmatrix}$ $\left(\frac{1}{\overline{3}}\right)$ $\frac{1}{\overline{3}}$

Last, I need to make sure that my answer makes sense.

I found that Zach could make 6 hamburgers. It makes sense because I represented the 2 pounds of ground beef with 2 paper squares and folded them into equal parts of 1 third to find how many can be made from 2 pounds.

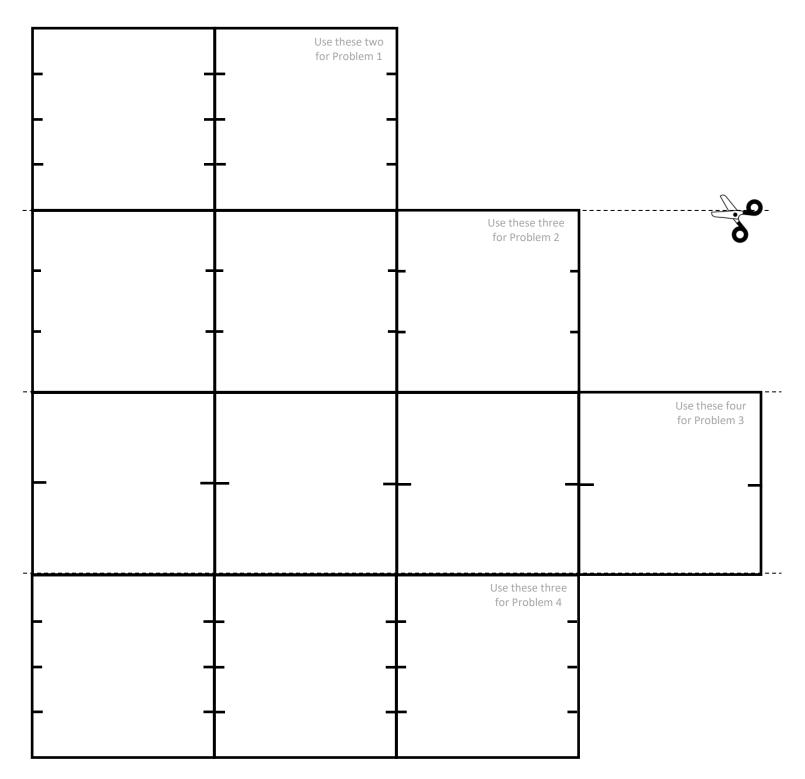


Whole Numbers to Divide (Set 1)

Directions: Provide each student both sets of squares for the Guided Practice.

Note: The teacher may use the two squares in the 1st row for the Modeling problem.

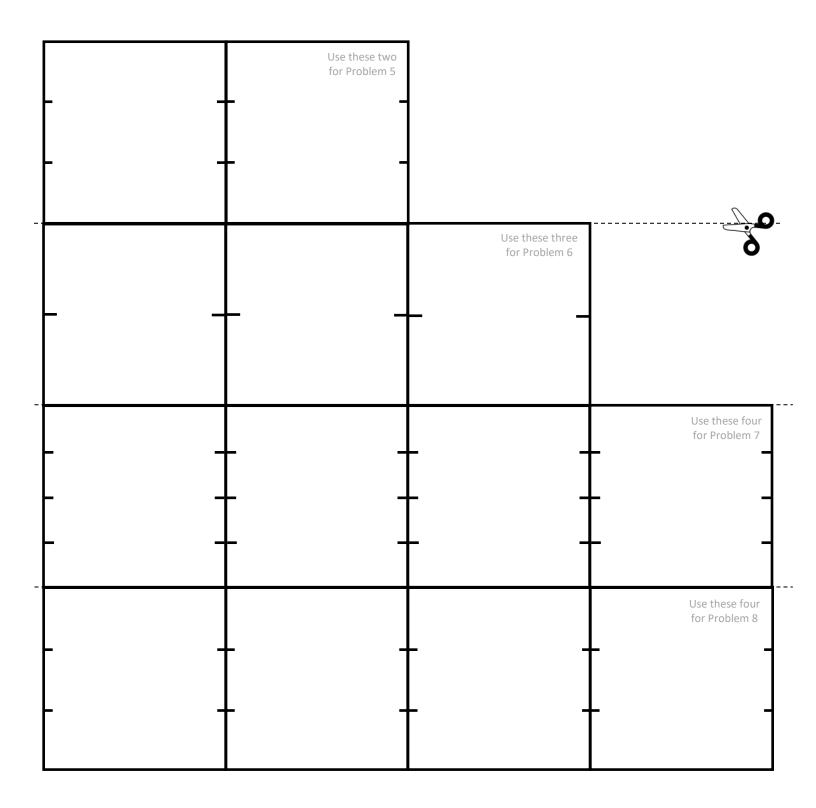
(We Do Together, problems 1-4)





Whole Numbers to Divide (Set 2)

(You Do Together, problems 5-8)



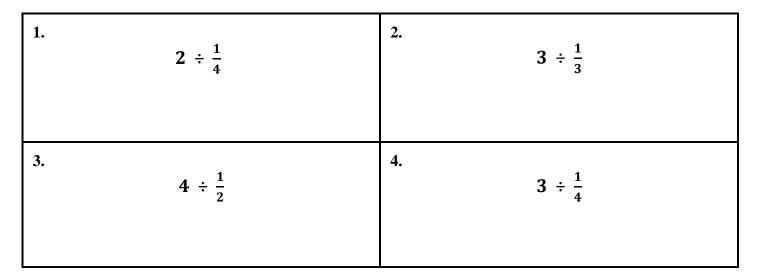
Session 1: Guided Practice (We Do)

Materials:

- Templates for Squares (2 sheets per student)
- > 1 yellow and 1 blue highlighter per student

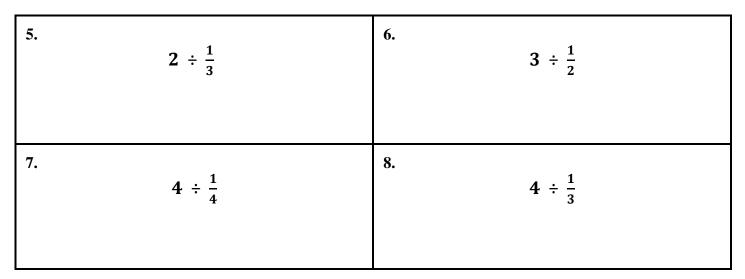
We Do Together: (Teacher Actions)

- Restate each division problem based on your conceptual understanding.
- > Fold and highlight fraction squares to find each answer.



You Do Together: (As a class, or in small groups)

Students take turns leading to divide whole numbers by unit fractions.





Session 1: Guided Practice (We Do – Teacher Notes)

 Materials: > Templates for Squares (2 sheets per student) > 1 yellow and 1 blue highlighter per student We Do Together: (Teacher Actions) > Restate each division problem based on your concept > Fold and highlight fraction squares to find each answer 	
1. $2 \div \frac{1}{4} = 8$	2. $3 \div \frac{1}{3} = 9$
2 divided into groups of 1 fourth	3 divided into groups of 1 third
3. $4 \div \frac{1}{2} = 8$	4. $3 \div \frac{1}{4} = 12$
4 divided into groups of 1 half	3 divided into groups of 1 fourth

You Do Together: (As a class, or in small groups)

> Students take turns leading to divide whole numbers by unit fractions.

5.
$$2 \div \frac{1}{3} = 6$$
6. $3 \div \frac{1}{2} = 6$ 2 divided into groups of 1 third3 divided into groups of 1 half7. $4 \div \frac{1}{4} = 16$ 8.4 divided into groups of 1 fourth4 divided into groups of 1 third



Session 1: Self-Reflection

Learning Target: I will divide a whole number by a unit fraction

Briefly discuss student responses:

- What did I learn today about dividing a whole number by a unit fraction?
- How confident do I feel about dividing a whole number by a unit fraction on my own? (Thumbs up, down, or sideways)

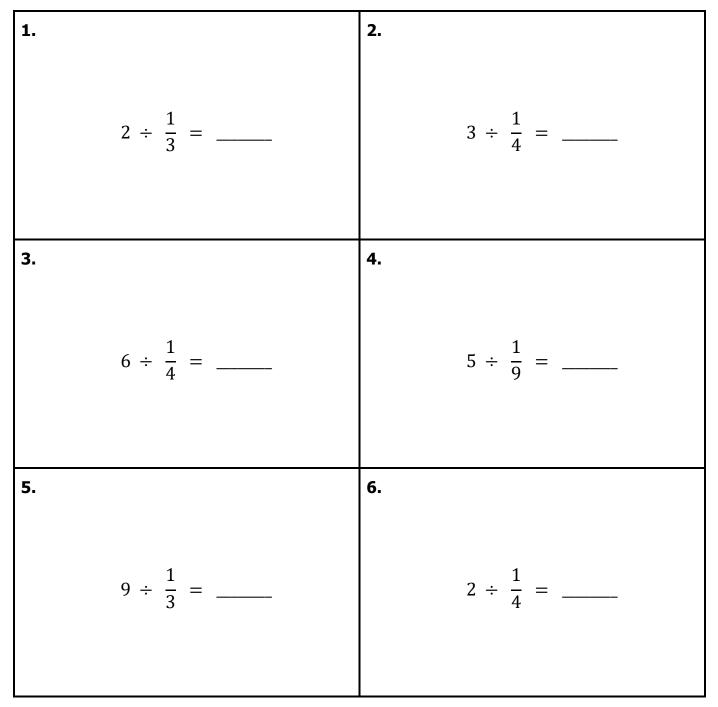


Name_____

Date_____

Learning Target: I will divide a whole number by a unit fraction.

Directions: Write the answer to each problem. (Work time: 4 minutes)





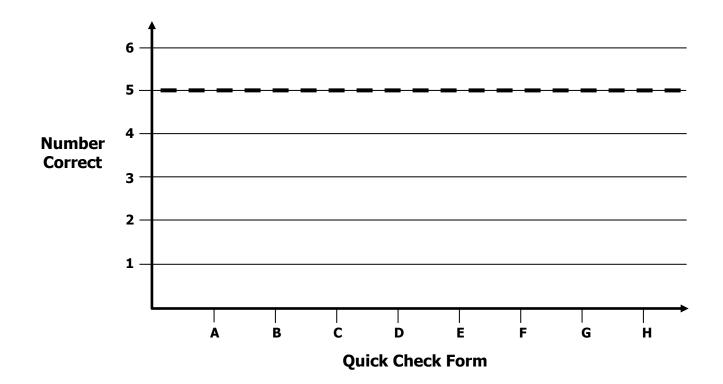
Growth Chart

Name

Date _____

Learning Target: I will divide a whole number by a unit fraction.

Goal: 5 out of 6 correct



Intervention	Date	Score
Session 1:		
Session 2:		
Session 3:		
Session 4:		
Session 5:		
Session 6:		
Session 7:		
Session 8:		

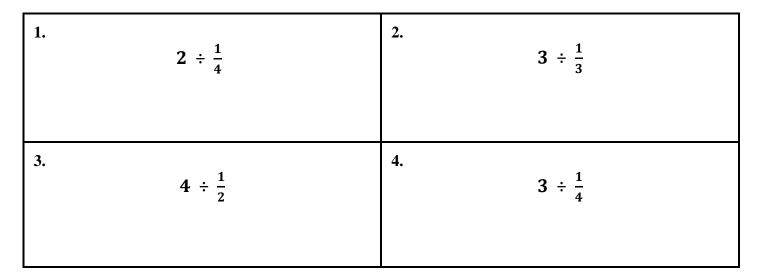
Session 2: Guided Practice (We Do)

Materials:

- Templates for Squares (2 sheets per student)
- > 1 yellow and 1 blue highlighter per student

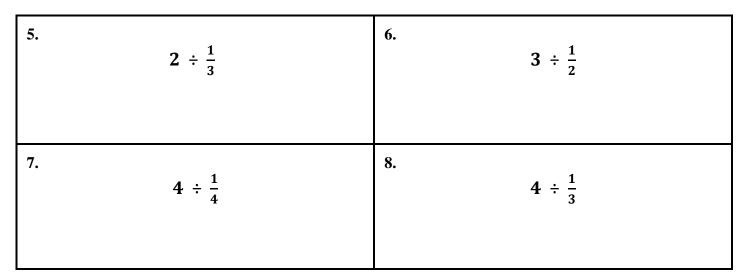
We Do Together: (Teacher Actions)

- Restate each division problem based on your conceptual understanding.
- > Fold and highlight fraction squares to find each answer.



You Do Together: (As a class, or in small groups)

> Students take turns leading to divide whole numbers by unit fractions.

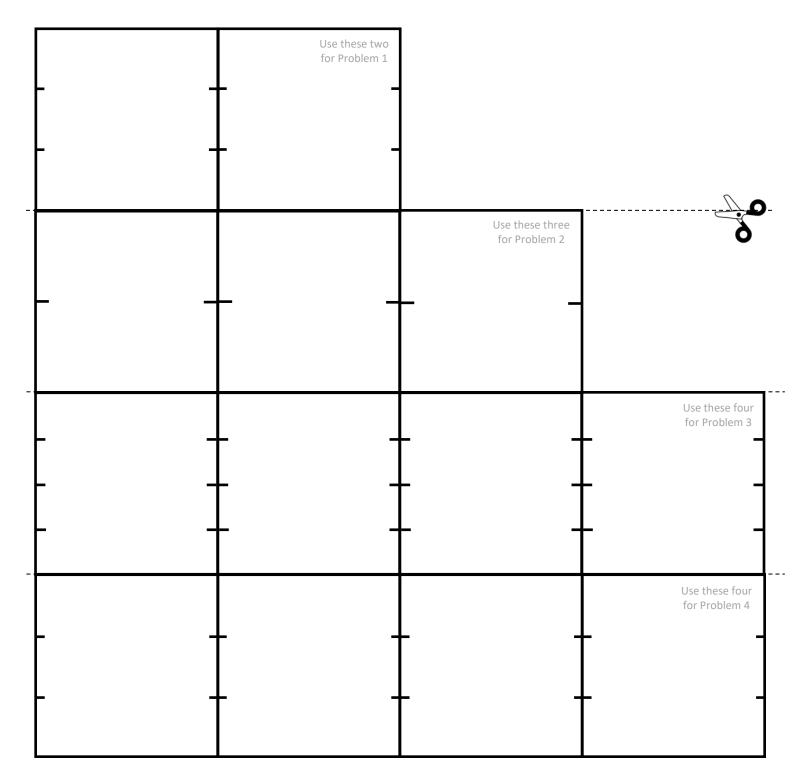




Whole Numbers to Divide (Set 1)

Directions: Provide each student both sets of squares for the Guided Practice.

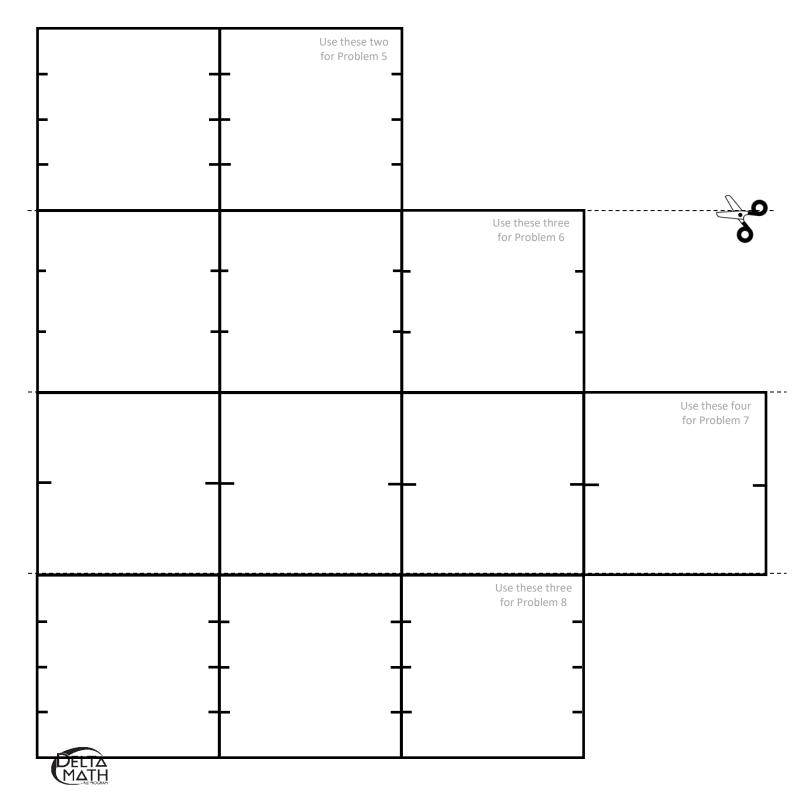
(You Do Together, problems 1-4)





Whole Numbers to Divide (Set 2)

(We Do Together, problems 5-8)





Session 2: Self-Reflection

Learning Target: I will divide a whole number by a unit fraction

Briefly discuss student responses:

- What did I learn today about dividing a whole number by a unit fraction?
- How confident do I feel about dividing a whole number by a unit fraction on my own? (Thumbs up, down, or sideways)

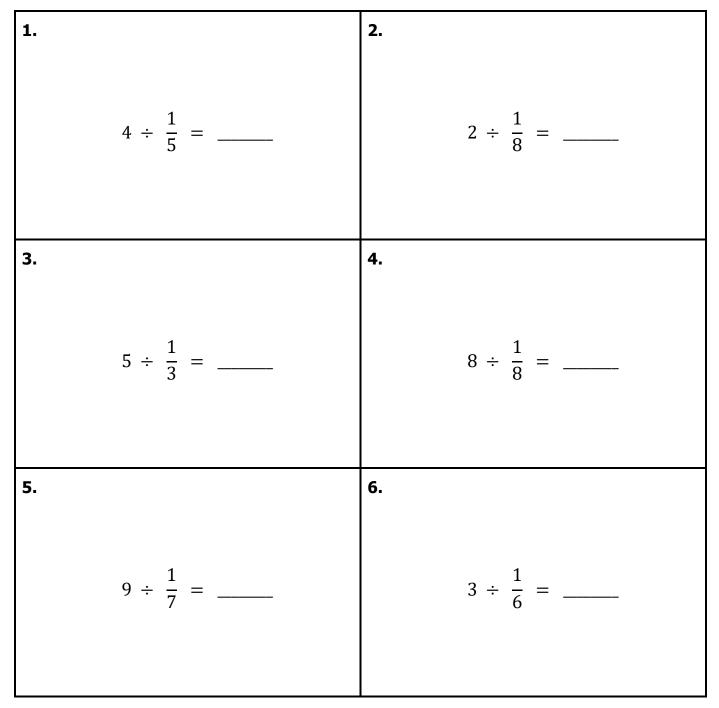


Name_____

Date_____

Learning Target: I will divide a whole number by a unit fraction.

Directions: Write the answer to each problem. (Work time: 4 minutes)





Session 3: Modeling (I Do)

Learning Target: I will divide a whole number by a unit fraction **Readiness** for multiplying and dividing fractions

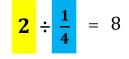
Zach loves to eat jellybeans, but yesterday he ate 2 cups of jellybeans and felt sick. If he ate the $\frac{1}{4}$ of a cup each time he walked by the jellybean jar, how many times did he eat jellybeans?



Session 3: Modeling (I Do – Visual Support)

Learning Target: I will divide a whole number by a unit fraction **Readiness** for multiplying and dividing fractions

Zach loves to eat jellybeans, but yesterday he ate 2 cups of jellybeans and felt sick. If he ate the $\frac{1}{4}$ of a cup each time he walked by the jellybean jar, how many times did he eat jellybeans?



2 Cups of Jellybeans

	✓	\checkmark
	✓	\checkmark
Each part is	✓	✓
$\frac{1}{4}$ of a whole	$\frac{1}{4}$ 🗸	\checkmark



Session 3: Modeling (I Do - Teacher Notes)

Learning Target: I will divide a whole number by a unit fraction

Readiness for multiplying and dividing fractions

Zach loves to eat jellybeans, but yesterday he ate 2 cups of jellybeans and felt sick. If he ate the $\frac{1}{4}$ of a cup

each time he walked by the jellybean jar, how many times did he eat jellybeans?

I am going to think aloud to model solving this problem.

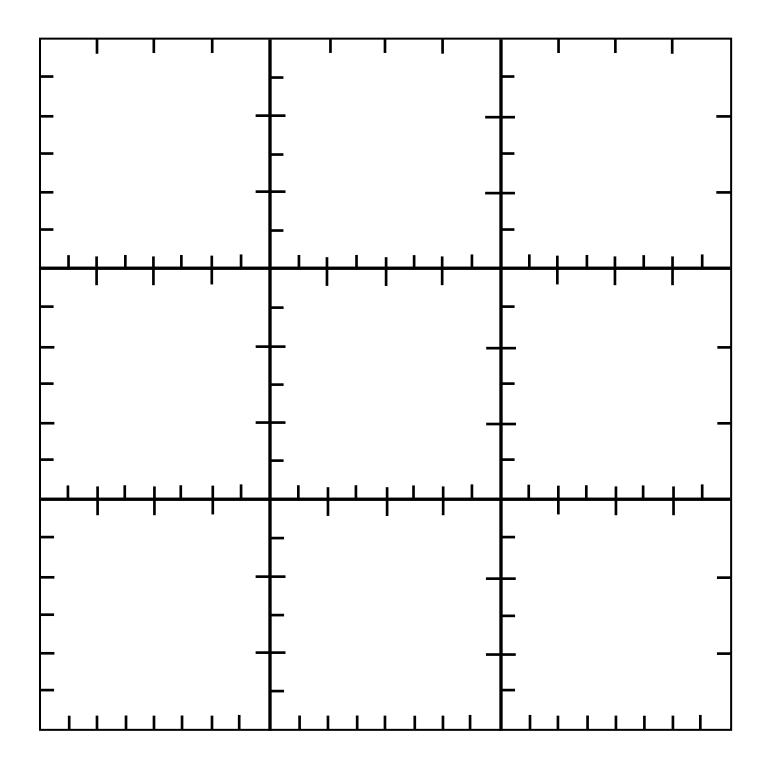
Your job is to watch, listen, think and ask questions.

First, it is important to know what the problem is about. This problem is about Zach eating jellybeans.	
Second, I need to determine what I need to find. I need to find how many times he ate jellybeans.	
Third, I need to determine what I know. I know that he ate 2 cups of jellybeans and he ate $rac{1}{4}$ of a cup each time he walked by the je	ellybean jar.
Fourth, I need to figure out what I can try.	
I am going to try using an area drawing to find how many $\frac{1}{4}$ cups are in 2 cups. (Write the division problem above the 2 squares and outline them using a yellow highlighter.)
I will begin by separating each whole cup into the 1-quarter cup servings. (Use the guide for drawing fractions to draw lines separating each cup into quarters, label them and outline each quarter with a blue highlighter.)	
To see how many times he ate jellybeans, I will count the total number of 1-quarter serving (Point to and count each serving.)	2 ÷ ¹ / ₄ = 8
There are 8 1-quarter cup servings in 2 cups of jellybeans.	2 Cups of Jellybeans
$\frac{Each part is}{\frac{1}{4} of a whole}$	Image: V Image: V Image: V Image: V Image: V Image: V Image: V Image: V Image: V Image: V
Last, I need to make sure that my answer makes sense.	
I found that Zach ate jellybeans 8 times. It makes sense because I represented the 2 cups u separated each cup into 1 quarter equal parts to find how many of these parts equal 2 who	



Directions: Copy on cardstock and cut out 1 square per student.

Note: The sides of each square provide a guide to draw halves, thirds, fourths, sixths and eighths. Rotate the square to use the side required for each problem.

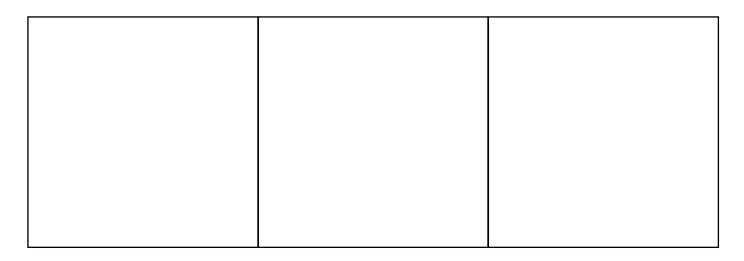


Session 3: Guided Practice (We Do)

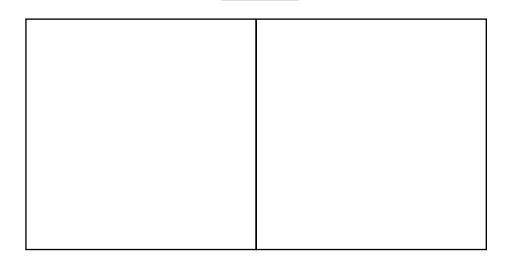
We Do Together: (Teacher Actions)

- Restate each division problem based on your conceptual understanding.
 Example: 3 wholes equally divided into groups of 1-eighth
- > Use the square guide to help you draw each problem.

1.
$$3 \div \frac{1}{8} =$$



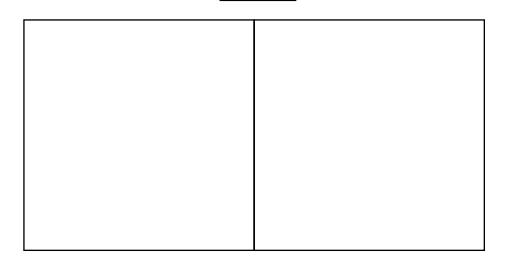
2.
$$2 \div \frac{1}{6} =$$



Session 3: Guided Practice (We Do – Continued)

We Do Together: (Continued)

3. $2 \div \frac{1}{8} =$



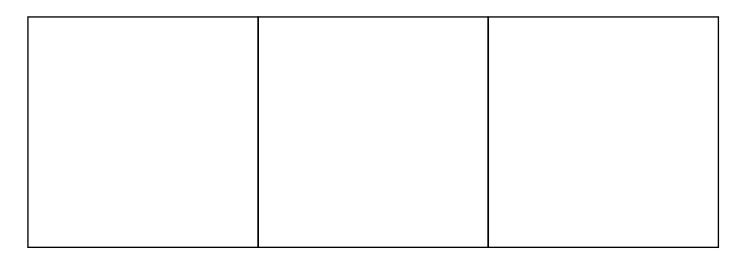
4. $3 \div \frac{1}{2} =$

Session 3: Guided Practice (We Do – Continued)

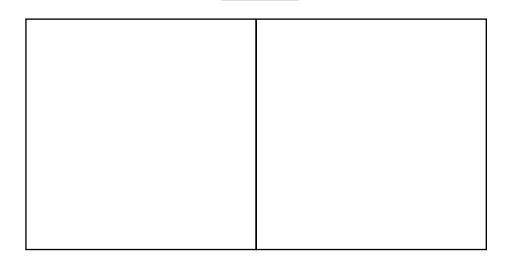
You Do Together: (Student Actions)

- Restate each division problem based on your conceptual understanding.
 Example: 3 wholes equally divided into groups of 1-fourth
- > Use the square guide to help you draw each problem.

5.
$$3 \div \frac{1}{4} =$$



6.
$$2 \div \frac{1}{3} =$$



Session 3: Guided Practice (We Do – Continued)

You Do Together: (Continued)

7. $3 \div \frac{1}{6} =$

8. $2 \div \frac{1}{4} =$

Session 3: Guided Practice (We Do – Teacher Notes)

We Do Together: (Teacher Actions)

3

2

÷

- Restate each division problem based on your conceptual understanding. Example: How many groups of 1 eighth make up 3 wholes?
- > Use the square guide to help you draw each problem.





 $\frac{1}{8} = 24$

\checkmark	\checkmark	\checkmark
\checkmark	\checkmark	\checkmark
$\frac{1}{8}$ 🗸	\checkmark	\checkmark

2 divided into groups of 1 sixth

2.

 $\div \frac{1}{6} =$

\checkmark	\checkmark
\checkmark	\checkmark
$\frac{1}{6}$ 🗸	\checkmark

12



Session 3: Self-Reflection

Learning Target: I will divide a whole number by a unit fraction

Briefly discuss student responses:

- What did I learn today about dividing a whole number by a unit fraction?
- How confident do I feel about dividing a whole number by a unit fraction on my own? (Thumbs up, down, or sideways)

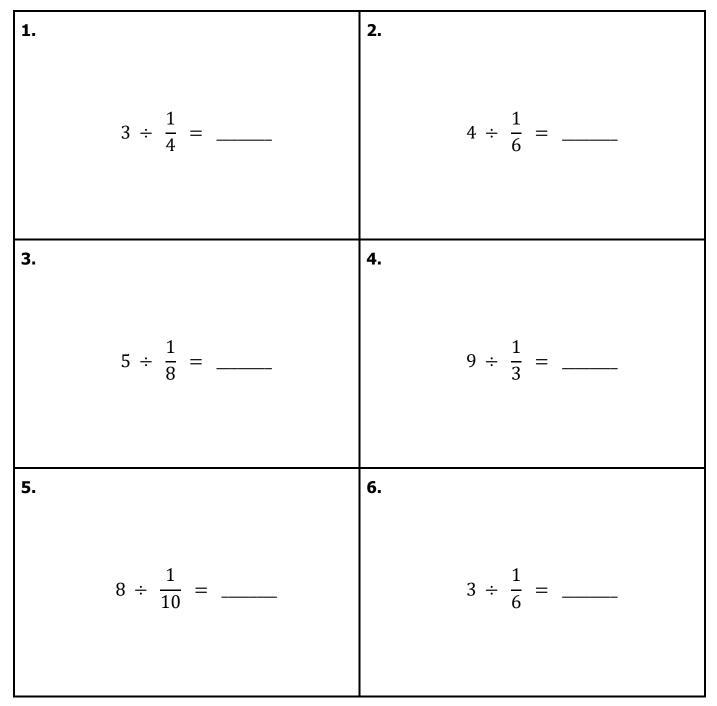


Name_____

Date_____

Learning Target: I will divide a whole number by a unit fraction.

Directions: Write the answer to each problem. (Work time: 4 minutes)

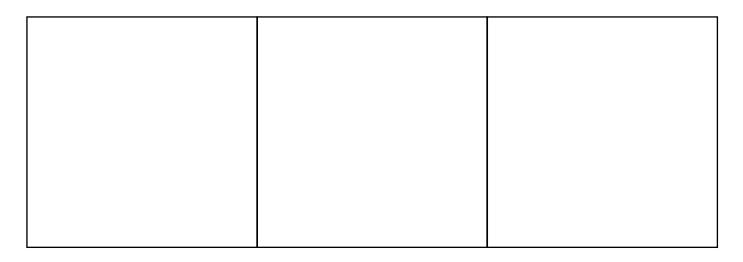


Session 4: Guided Practice (We Do)

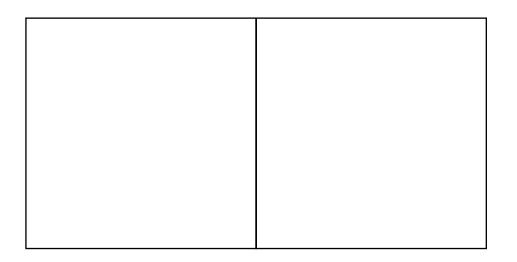
We Do Together: (Teacher Actions)

- Restate each division problem based on your conceptual understanding.
 Example: 3 wholes equally divided into groups of 1-sixth
- > Use the square guide to help you draw each problem.

1.
$$3 \div \frac{1}{6} =$$



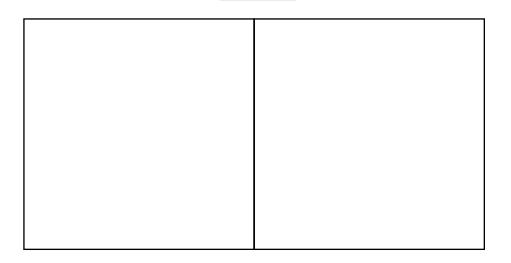
2.
$$2 \div \frac{1}{4} =$$



Session 4: Guided Practice (We Do – Continued)

We Do Together: (Continued)

3. $2 \div \frac{1}{2} =$



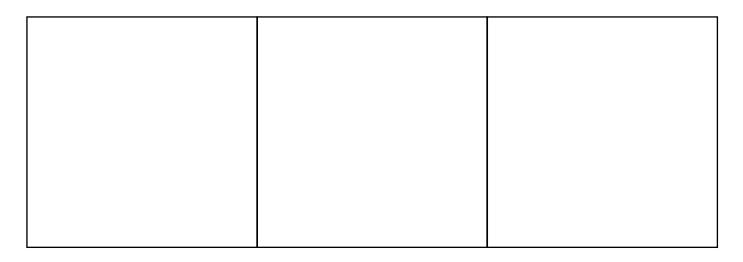
4. $3 \div \frac{1}{8} =$

Session 4: Guided Practice (We Do – Continued)

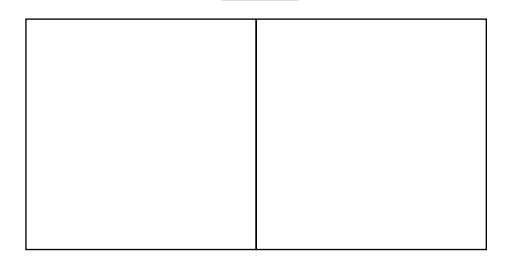
You Do Together: (Student Actions)

- Restate each division problem based on your conceptual understanding.
 Example: 3 wholes equally divided into groups of 1-half
- > Use the square guide to help you draw each problem.

5.
$$3 \div \frac{1}{2} =$$



6.
$$2 \div \frac{1}{6} =$$



Session 4: Guided Practice (We Do – Continued)

You Do Together: (Continued)

7. $3 \div \frac{1}{4} =$

8. $2 \div \frac{1}{8} =$



Session 4: Self-Reflection

Learning Target: I will divide a whole number by a unit fraction

Briefly discuss student responses:

- What did I learn today about dividing a whole number by a unit fraction?
- How confident do I feel about dividing a whole number by a unit fraction on my own? (Thumbs up, down, or sideways)

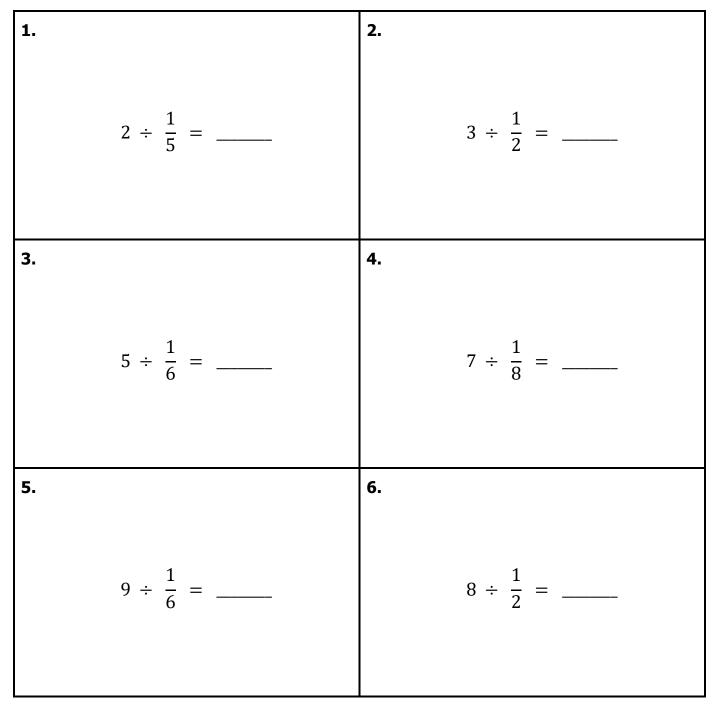


Name_____

Date_____

Learning Target: I will divide a whole number by a unit fraction.

Directions: Write the answer to each problem. (Work time: 4 minutes)

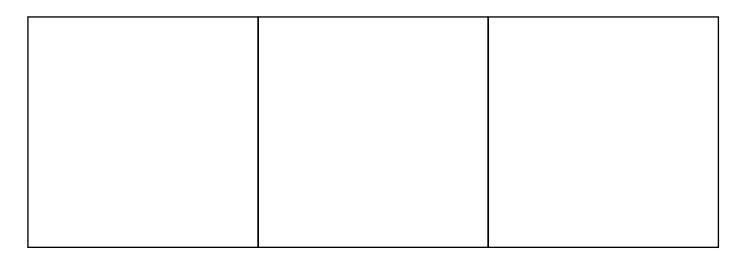


Session 5: Guided Practice (We Do)

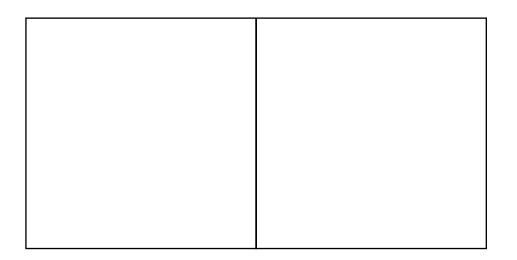
We Do Together: (Teacher Actions)

- Restate each division problem based on your conceptual understanding.
 Example: 3 wholes equally divided into groups of 1-eighth
- > Use the square guide to help you draw each problem.

1.
$$3 \div \frac{1}{8} =$$



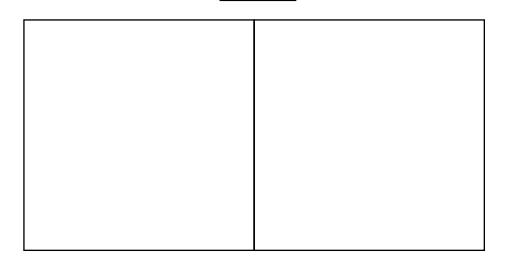
2.
$$2 \div \frac{1}{6} =$$



Session 5: Guided Practice (We Do – Continued)

We Do Together: (Continued)

3. $2 \div \frac{1}{8} =$



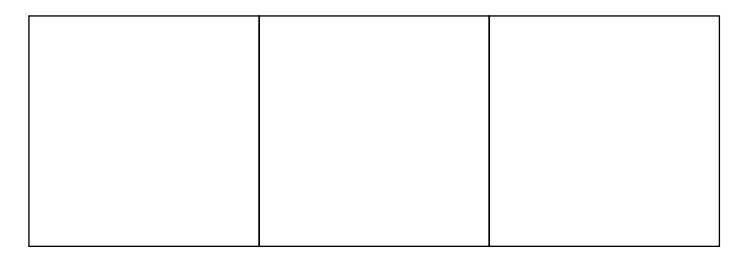
4. $3 \div \frac{1}{2} =$

Session 5: Guided Practice (We Do – Continued)

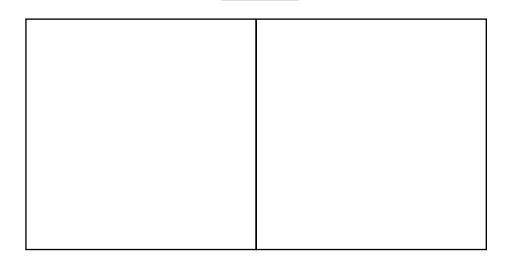
You Do Together: (Student Actions)

- Restate each division problem based on your conceptual understanding.
 Example: 3 wholes equally divided into groups of 1-fourth
- > Use the square guide to help you draw each problem.

5.
$$3 \div \frac{1}{4} =$$



6.
$$2 \div \frac{1}{3} =$$



Session 5: Guided Practice (We Do – Continued)

You Do Together: (Continued)

7. $3 \div \frac{1}{6} =$

8. $2 \div \frac{1}{4} =$



Session 5: Self-Reflection

Learning Target: I will divide a whole number by a unit fraction

Briefly discuss student responses:

- What did I learn today about dividing a whole number by a unit fraction?
- How confident do I feel about dividing a whole number by a unit fraction on my own? (Thumbs up, down, or sideways)

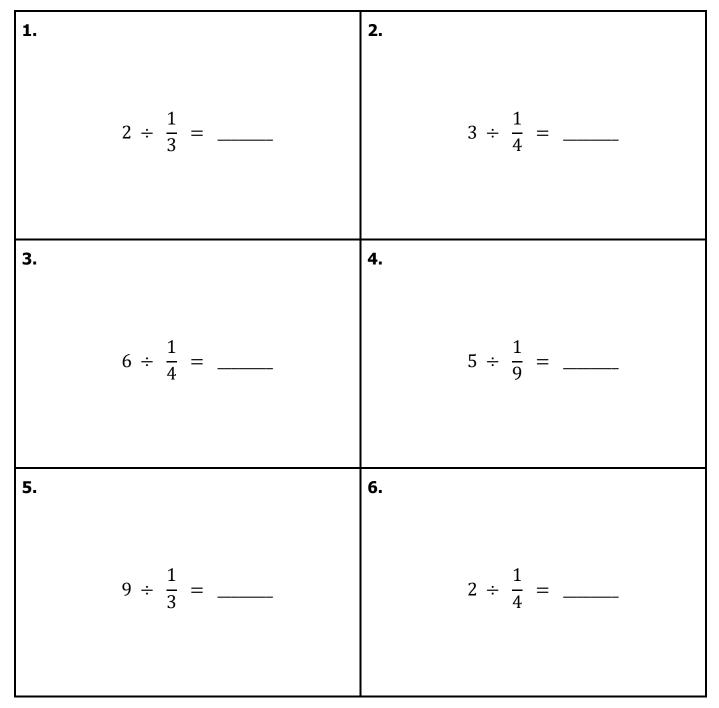


Name_____

Date_____

Learning Target: I will divide a whole number by a unit fraction.

Directions: Write the answer to each problem. (Work time: 4 minutes)





Session 6: Modeling (I Do)

Learning Target: I will divide a whole number by a unit fraction **Readiness** for multiplying and dividing fractions

Zach used an area drawing to find the answer to $2 \div \frac{1}{4}$. Look for structure in his drawing that would help write a multiplication problem that can be used to find the same answer.

$$2 \div \frac{1}{4} = 8$$

2 Wholes

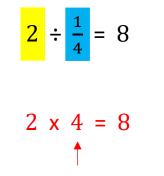
		\checkmark
	✓	✓
Each part is	✓	✓
Each part is $\frac{1}{4}$ of a whole	$\frac{1}{4}$ 🗸	\checkmark



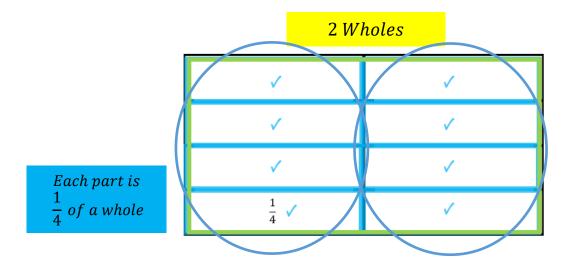
Session 6: Modeling (I Do – Visual Support)

Learning Target: I will divide a whole number by a unit fraction **Readiness** for multiplying and dividing fractions

Zach used an area drawing to find the answer to $2 \div \frac{1}{4}$. Look for structure in his drawing that would help write a multiplication problem that can be used to find the same answer.



Each whole has 4 equal parts



Session 6: Modeling (I Do - Teacher Notes)

Learning Target: I will divide a whole number by a unit fraction

Readiness for multiplying and dividing fractions

Zach used an area drawing to find the answer to $2 \div \frac{1}{4}$. Look for structure in his drawing that would help write a multiplication problem that can be used to find the same answer.

I am going to think aloud to model solving this problem.

Your job is to watch, listen, think and ask questions.

First, it is important to know what the problem is about. This problem is about Zach using an area drawing to divide a whole number by a unit fraction.				
Second, I need to determine what I need to find. I need to write a multiplication problem that I can use to find the same answer.				
Third, I need to determine what I know. I know that the drawing shows 2 wholes separated into equal parts of 1 fourths and the answer is 8.				
Fourth, I need to figure out what I can try. I am going to try looking for a multiplication problem in the drawing.	$\frac{2}{2} \div \frac{1}{4} = 8$			
I notice that there are 2 groups of 4 fourths. (Draw a circle around each whole.)	$2 \times 4 = 8$ \uparrow Each whole has 4 equal parts			
And2 groups of 4 can be represented by the multiplication problem 2 x 4 = 8. (Write "2 x 4 = 8" below the original division equation and write "Each whole has 4 equal parts" under the multiplication equation.) Each part is $\frac{1}{4}$ of a whole Can you see the multiplication problem 2 times 4 is equal to 8?	2 Wholes			
Last, I need to make sure that my answer makes sense.				

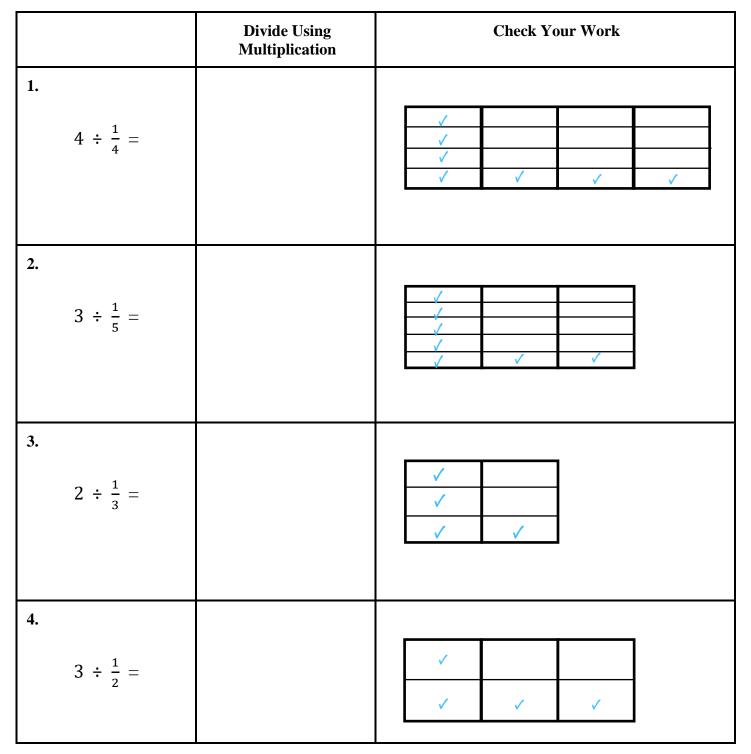
I found that multiplying the whole number by the denominator of the unit fraction will result in the same answer to the division problem. It makes sense because I can see both groups of equal parts in the math drawing. Let's see if it works for all of the guided practice problems.

Session 6: Guided Practice (We Do)

We Do Together: (Teacher Actions)

> Fold your paper to hide the math drawings. Then, multiply to find the answer to each division problem.

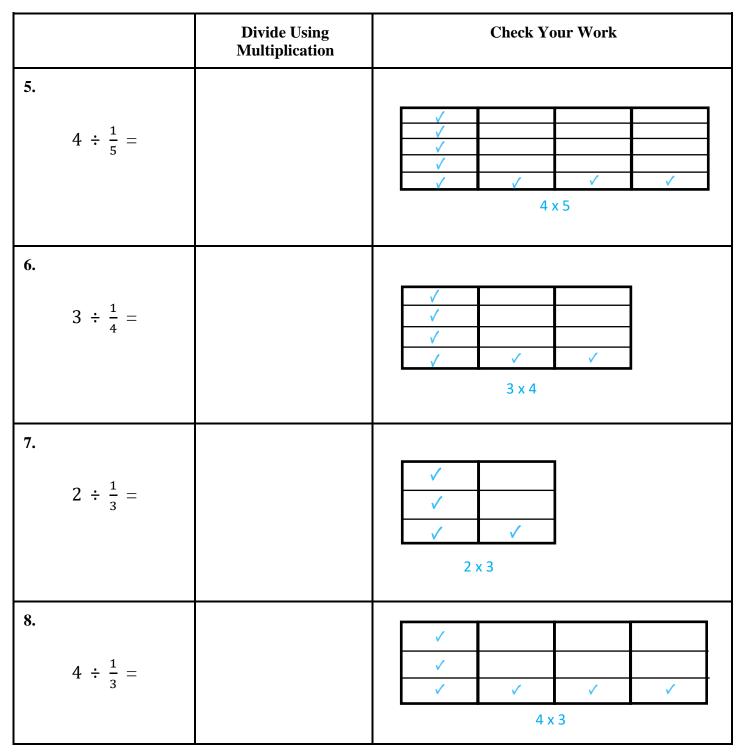
> Unfold your paper to check if your answer is correct.



Session 6: Guided Practice (We Do - Continued)

You Do Together: (As a class, or in small groups)

> Students take turns leading to find the answer to each division problem, then unfold to check each answer.



Session 6: Guided Practice (We Do – Teacher Notes)

We Do Together: (Teacher Actions)

- > Fold your paper to hide the math drawings. Then, multiply to find the answer to each division problem.
- > Unfold your paper to check if your answer is correct.

	Divide Using Multiplication	Check Your Work
1. $4 \div \frac{1}{4} =$	$4 \times \frac{4}{1} = \frac{4 \times 4}{1 \times 1} = 16$	✓ ✓ ✓ ✓
2. $3 \div \frac{1}{5} =$	$3 \times \frac{5}{1} = \frac{3 \times 5}{1 \times 1} = 15$	✓
3. $2 \div \frac{1}{3} =$	$2 x \frac{3}{1} = \frac{2 x 3}{1 x 1} = 6$	✓ ✓ ✓ ✓ 2 x 3
4. $3 \div \frac{1}{2} =$	$3 \times \frac{2}{1} = \frac{3 \times 2}{1 \times 1} = 6$	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ 3 x 2



Session 6: Self-Reflection

Learning Target: I will divide a whole number by a unit fraction

Briefly discuss student responses:

- What did I learn today about dividing a whole number by a unit fraction?
- How confident do I feel about dividing a whole number by a unit fraction on my own? (Thumbs up, down, or sideways)

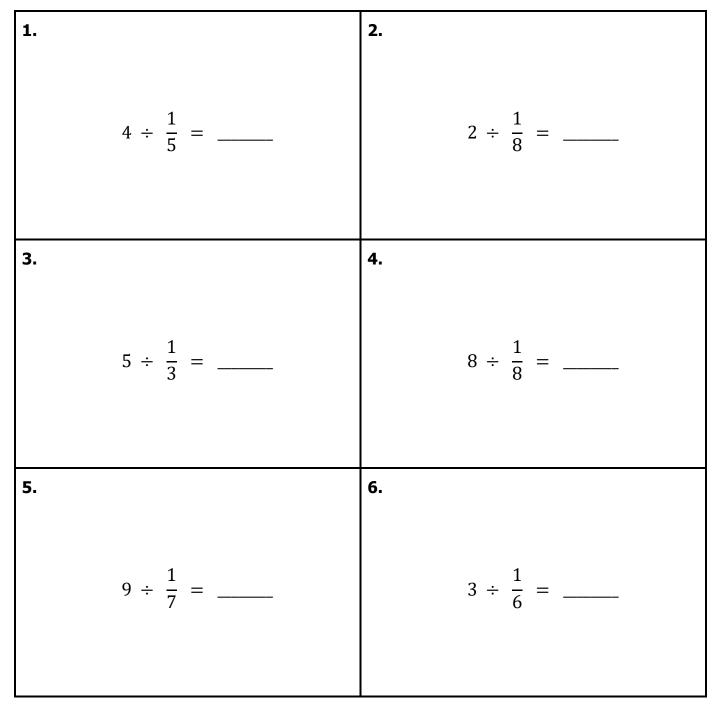


Name_____

Date_____

Learning Target: I will divide a whole number by a unit fraction.

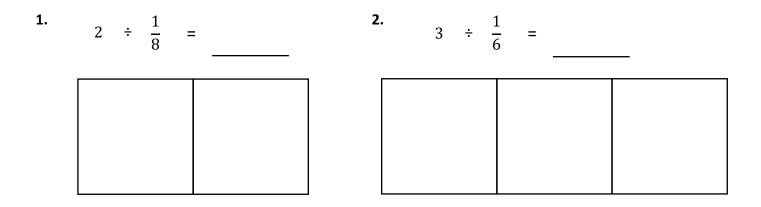
Directions: Write the answer to each problem. (Work time: 4 minutes)



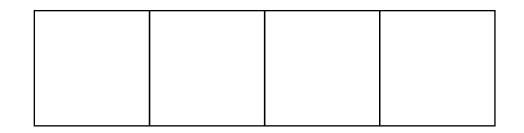
Session 7: Guided Practice (We Do)

We Do Together: (Teacher Actions)

- Restate each division problem based on your conceptual understanding.
 Example: 3 wholes equally divided into groups of 1-eighth
- > Multiply to find the answer to each division problem. Then, sketch the division problem to check your answer.



3. $4 \div \frac{1}{3} =$



4.

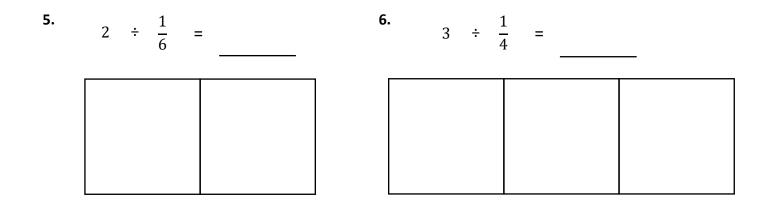
 $5 \div \frac{1}{4} =$

	-		

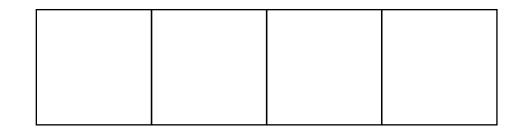
Session 7: Guided Practice (We Do – Continued)

You Do Together: (Student Actions)

Students take turns leading to restating each division problem. Then, multiply to find the answer to each division problem and sketch the original problem to check your answer.



7. $4 \div \frac{1}{8} =$



8.

 $5 \div \frac{1}{6} =$

	-	 	



Session 7: Self-Reflection

Learning Target: I will divide a whole number by a unit fraction

Briefly discuss student responses:

- What did I learn today about dividing a whole number by a unit fraction?
- How confident do I feel about dividing a whole number by a unit fraction on my own? (Thumbs up, down, or sideways)

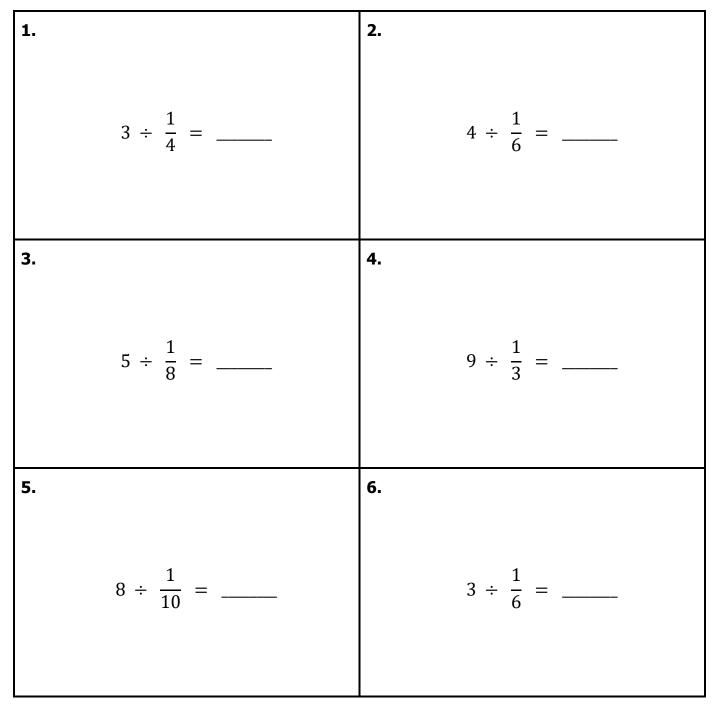


Name_____

Date_____

Learning Target: I will divide a whole number by a unit fraction.

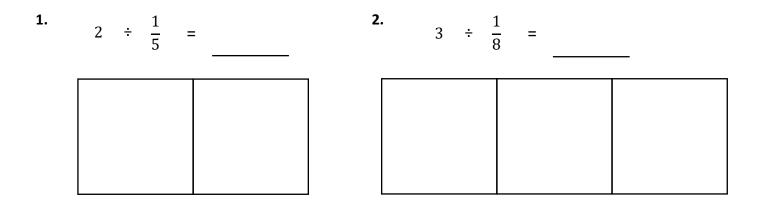
Directions: Write the answer to each problem. (Work time: 4 minutes)



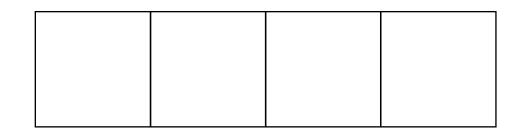
Session 8: Guided Practice (We Do)

We Do Together: (Teacher Actions)

- Restate each division problem based on your conceptual understanding.
 Example: 3 wholes equally divided into groups of 1-eighth
- > Multiply to find the answer to each division problem. Then, sketch the division problem to check your answer.



3. $4 \div \frac{1}{7} =$



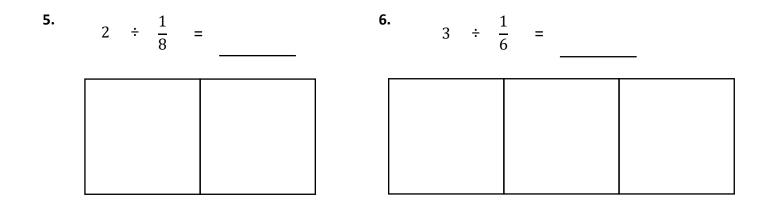
4.

 $5 \div \frac{1}{3} =$

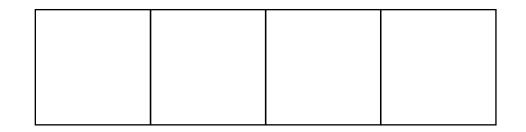
Session 8: Guided Practice (We Do – Continued)

You Do Together: (Student Actions)

Students take turns leading to restating each division problem. Then, multiply to find the answer to each division problem and sketch the original problem to check your answer.



7. $4 \div \frac{1}{5} =$



8.

 $5 \div \frac{1}{4} =$



Session 8: Self-Reflection

Learning Target: I will divide a whole number by a unit fraction

Briefly discuss student responses:

- What did I learn today about dividing a whole number by a unit fraction?
- How confident do I feel about dividing a whole number by a unit fraction on my own? (Thumbs up, down, or sideways)

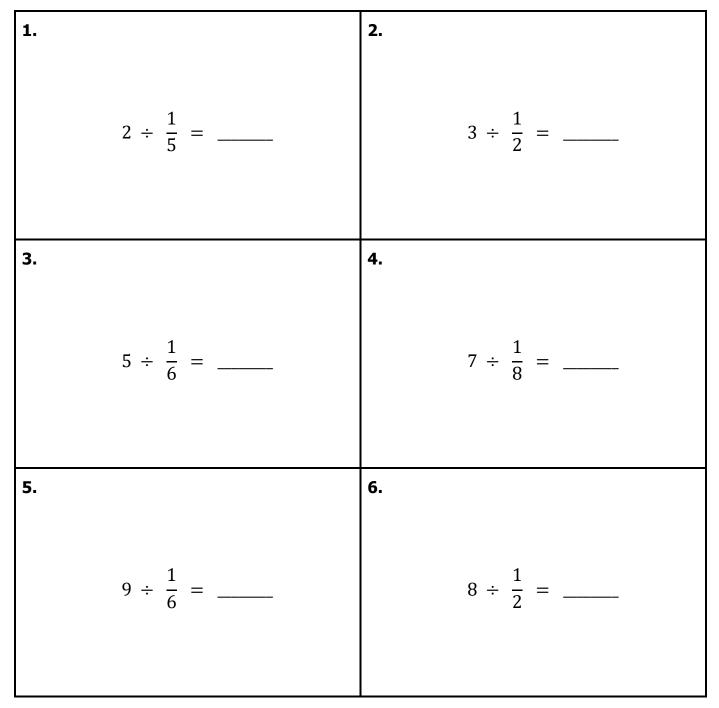


Name_____

Date_____

Learning Target: I will divide a whole number by a unit fraction.

Directions: Write the answer to each problem. (Work time: 4 minutes)





Independent Practice (You Do)

Learning Target: I will divide a whole number by a unit fraction **Readiness** for multiplying and dividing fractions

Title of Game: Play "Division Match-up!"

Number of Players: 2

Objective: To match your answer cards to unknown problem cards.

Materials:

- > 1 set of **Problem** and **Answer** cards per group
- 1 recording sheet per player

Set-up:

- > Deal all 10 **Problem** cards face down in a row.
- > Deal 5 **Answer** cards face up to each player.

Directions:

- > Player 1 goes first
 - Take a card from the row of face down **Problem** cards and turn it face up
 - o Write the problem on the recording sheet
- > If **Player 1** has the **Answer** card, place it face up on top of the **Problem** card, take both cards and say:

"The answer to _____ is equal to ____."

- > If **Player 1** does not have the answer to the **Problem** card, turn the **Problem** card back over.
- > Players 1 and 2 alternate turns. The winner is the first player to match all 5 of their cards.

Independent Practice: Division Match-up!

(Recording Sheet)



Problem Cards (Set A₁ and A₂)

Storage Suggestions: Copy the **Problem (Set A)** cards and **Answer (Set A)** cards in two different colors. Store 1 set of each in a sealable bag for each pair of students.

	Store I set of each in a sealable bag for each pair of students.				
	$2 \div \frac{1}{2}$	$3 \div \frac{1}{2}$	$4 \div \frac{1}{2}$	$5 \div \frac{1}{2}$	
Set A ₁	$6 \div \frac{1}{3}$	$3 \div \frac{1}{3}$	$4 \div \frac{1}{3}$	$5 \div \frac{1}{3}$	
	$6 \div \frac{1}{4}$	$7 \div \frac{1}{4}$			
	$2 \div \frac{1}{2}$	$3 \div \frac{1}{2}$	$4 \div \frac{1}{2}$	$5 \div \frac{1}{2}$	
Set A ₂	$6 \div \frac{1}{3}$	$3 \div \frac{1}{3}$	$4 \div \frac{1}{3}$	$5 \div \frac{1}{3}$	
	$6 \div \frac{1}{4}$	$7 \div \frac{1}{4}$			



Answer Cards (Set A₁ and A₂)

Storage Suggestions: Copy the **Problem (Set A)** cards and **Answer (Set A)** cards in two different colors. Store 1 set of each in a sealable bag for each pair of students.

	4 Set A ₁	6 Set A1	8 Set A1	10 Set A1
Set A ₁	18 Set A1	9 Set A1	12 Set A1	15 Set A1
	24 Set A1	28 Set A1		
Set A ₂	4 Set A ₂	6 Set A ₂	8 Set A ₂	10 Set A ₂
	18 Set A2	9 Set A ₂	12 Set A ₂	15 Set A ₂
	24 Set A2	28 Set A ₂		



Problem Cards (Set B₁ and B₂)

Storage Suggestions: Copy the **Problem (Set B)** cards and **Answer (Set B)** cards in two different colors. Store 1 set of each in a sealable bag for each pair of students.

	$2 \div \frac{1}{6}$	$3 \div \frac{1}{6}$	$4 \div \frac{1}{6}$	$2 \div \frac{1}{7}$	
Set B ₁	$3 \div \frac{1}{7}$	$4 \div \frac{1}{7}$ Set B ₁	$2 \div \frac{1}{8}$	$5 \div \frac{1}{8}$	
	$4 \div \frac{1}{8}$	$5 \div \frac{1}{9}$			
	$2 \div \frac{1}{6}$	$3 \div \frac{1}{6}$	$4 \div \frac{1}{6}$ Set B ₂	$2 \div \frac{1}{7}$ Set B ₂	
Set B ₂	$3 \div \frac{1}{7}$ Set B ₂	$4 \div \frac{1}{7}$ Set B ₂	$2 \div \frac{1}{8}$	$5 \div \frac{1}{8}$	
	$4 \div \frac{1}{8}$	$5 \div \frac{1}{9}$			



Answer Cards (Set B₁ and B₂)

Storage Suggestions: Copy the **Problem (Set B)** cards and **Answer (Set B)** cards in two different colors. Store 1 set of each in a sealable bag for each pair of students.

Set B1	12 Set B1	18 Set B1	24 Set B1	14 Set B1
	21 Set B1	28 Set B,	16 Set B1	40 Set B1
	32 Set B1	45 Set B1		
Set B ₂	12 Set B ₂	18 Set B2	24 Set B2	14 Set B ₂
	21 Set B ₂	28 Set B2	16 Set B ₂	40 Set B ₂
	32 Set B ₂	45 Set B ₂		



Problem Cards (Set C₁ and C₂)

Storage Suggestions: Copy the **Problem (Set C)** cards and **Answer (Set C)** cards in two different colors. Store 1 set of each in a sealable bag for each pair of students.

	$6 \div \frac{1}{3}$	$7 \div \frac{1}{3}$	$8 \div \frac{1}{4}$	$9 \div \frac{1}{3}$
Set C ₁	$6 \div \frac{1}{6}$	$7 \div \frac{1}{5}$	$8 \div \frac{1}{6}$	$9 \div \frac{1}{6}$
	$7 \div \frac{1}{7}$	$8 \div \frac{1}{8}$		
Set C ₂	$6 \div \frac{1}{3}$	$7 \div \frac{1}{3}$	$8 \div \frac{1}{4}$	$9 \div \frac{1}{3}$
	$6 \div \frac{1}{6}$	$7 \div \frac{1}{5}$	$8 \div \frac{1}{6}$	$9 \div \frac{1}{6}$
	$7 \div \frac{1}{7}$	$8 \div \frac{1}{8}$		

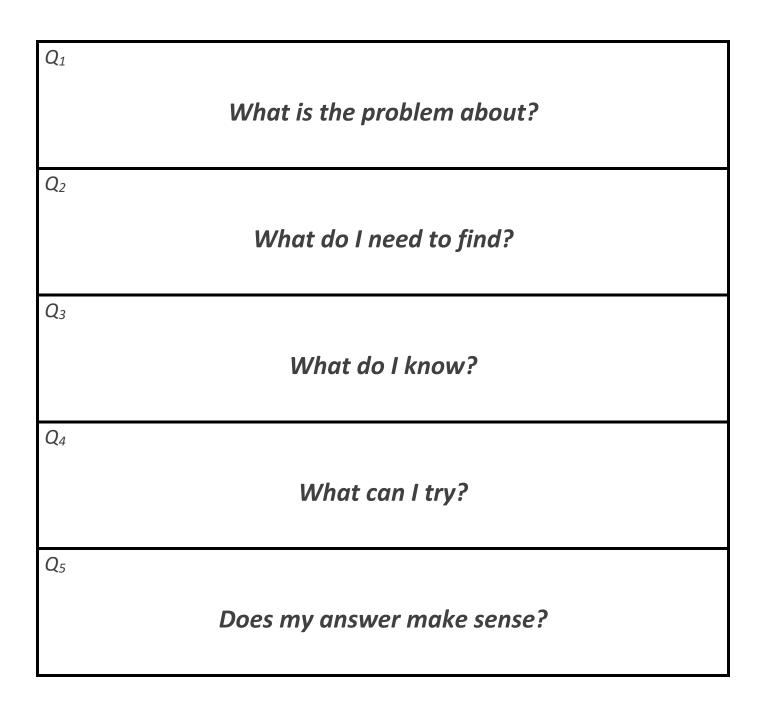


Answer Cards (Set C₁ and C₂)

Storage Suggestions: Copy the **Problem (Set C)** cards and **Answer (Set C)** cards in two different colors. Store 1 set of each in a sealable bag for each pair of students.

Set C ₁	18 Set C1	21 Set C1	32 Set C1	27 Set C ₁
	36 Set C1	35 Set C1	48 Set C1	54 Set C1
	49 Set C1	64 Set C1		
Set C ₂	18 Set C2	21 Set C2	32 Set C2	27 Set C,
	36 Set C ₂	35 Set C ₂	48 Set C ₂	54 Set C2
	49 Set C ₂	64 Set C ₂		







 Q_1 . What is the problem about?

Q₂. What do I need to find?

Q₃. What do I know?

*Q*₄. What can I try?

Q₅. Does my answer make sense?