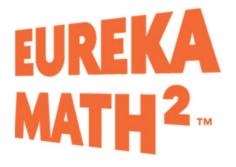
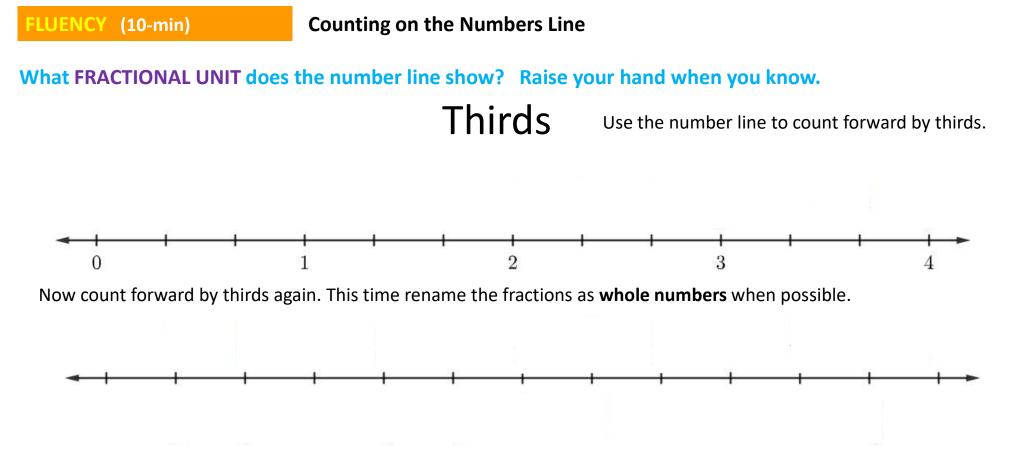
Lesson





Lesson 2: Interpret a fraction as division by writing remainders as fractions.

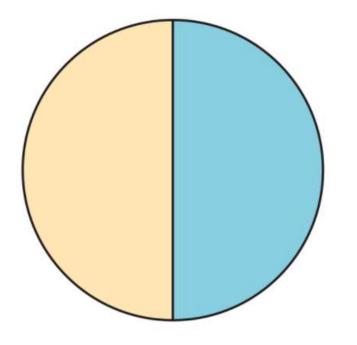
CCSS Standard – 5.NF.B.3



Now count forward by thirds again. This time rename the fractions as whole numbers and mixed numbers when possible.

Notice: Whole numbers and fractional units.

Choral Response: Equal Parts



How many EQUAL PARTS is the model portioned into?

2

What FRACTIONAL UNIT does the model show? Halves

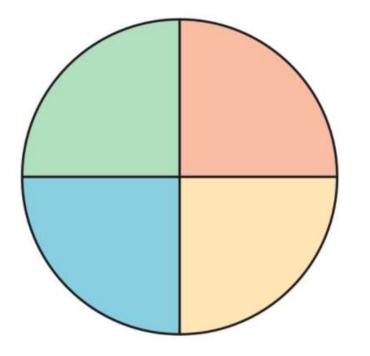
How many HALVES make 1 whole?

2 Halves

How many HALVES make 2 wholes?

4 Halves

Choral Response: Equal Parts



How many EQUAL PARTS is the model portioned into?

4

What FRACTIONAL UNIT does the model show? Fourths

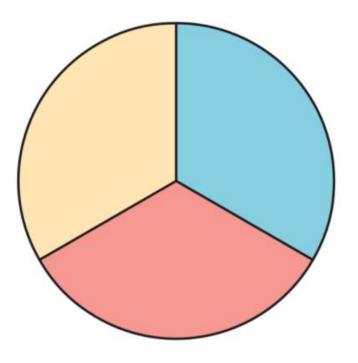
How many Fourths make 1 whole?

4 Fourths

How many Fourths make 2 wholes?

8 Fourths

Choral Response: Equal Parts



How many EQUAL PARTS is the model portioned into?

3

What FRACTIONAL UNIT does the model show? Thirds

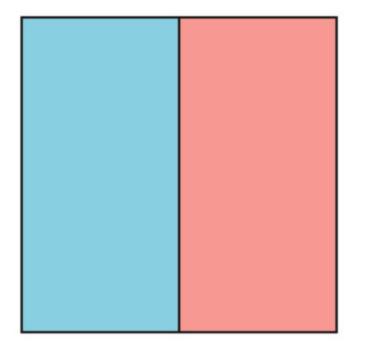
How many THIRDS make 1 whole?

3 Thirds

How many THIRDS make 2 wholes?

6 Thirds

Choral Response: Equal Parts



How many EQUAL PARTS is the model portioned into? 2 What FRACTIONAL UNIT does the model show? Halves

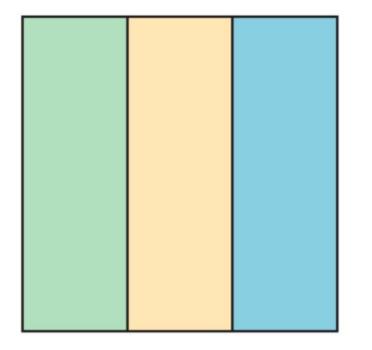
How many HALVES make 1 whole?

2 Halves

How many HALVES make 2 wholes?

4 Halves

Choral Response: Equal Parts



How many EQUAL PARTS is the model portioned into? 3 What FRACTIONAL UNIT does the model show? Thirds

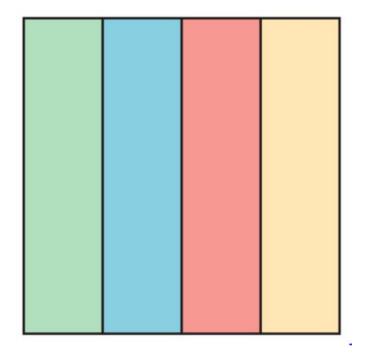
How many THIRDS make 1 whole?

3 Thirds

How many THIRDS make 2 wholes?

6 Thirds

Choral Response: Equal Parts



How many EQUAL PARTS is the model portioned into? 4 What FRACTIONAL UNIT does the model show? Fourths

How many Fourths make 1 whole?

4 Fourths

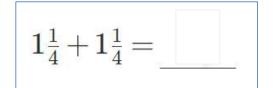
How many Fourths make 2 wholes?

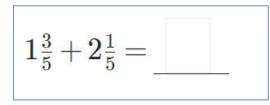
8 Fourths

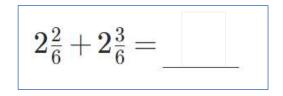
Whiteboard Exchange: Add Mix Numbers

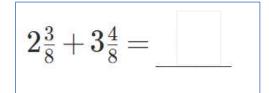


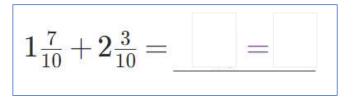
Write and complete the equation. When possible, rename the sum as a WHOLE number.

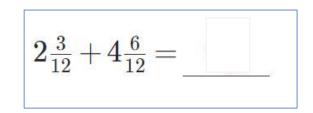








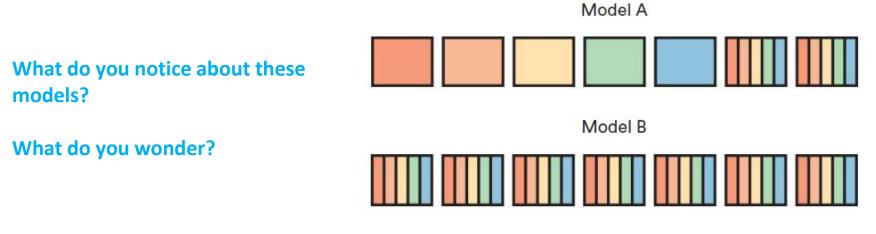




$$3\frac{20}{100} + 1\frac{80}{100} =$$

LAUNCH (10-min)

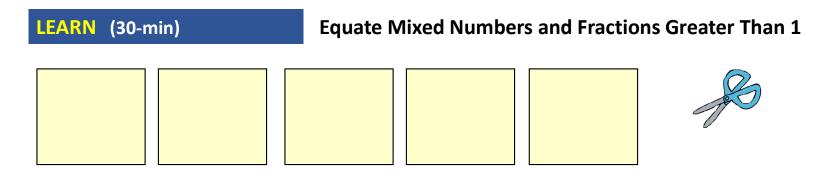
Students notice and wonder about models that represent the same equal sharing



Some things to notice:

- Both models show 7 wholes.
- Model A has 2 wholes partitioned into fifths.
- Model B has all 7 wholes partitioned into fifths.
- Model A has 5 wholes that are not partitioned.
- Both represent 7 ÷ 5.

The models show different ways to think about sharing units equally. Today, we will relate sharing units equally to division with remainders.



Suppose <u>4 friends</u> want to share <u>5 brownies equally</u>. Does each friend get more or less than 1 brownie? What division expression can we write to represent 4 friends sharing 5 brownies equally?

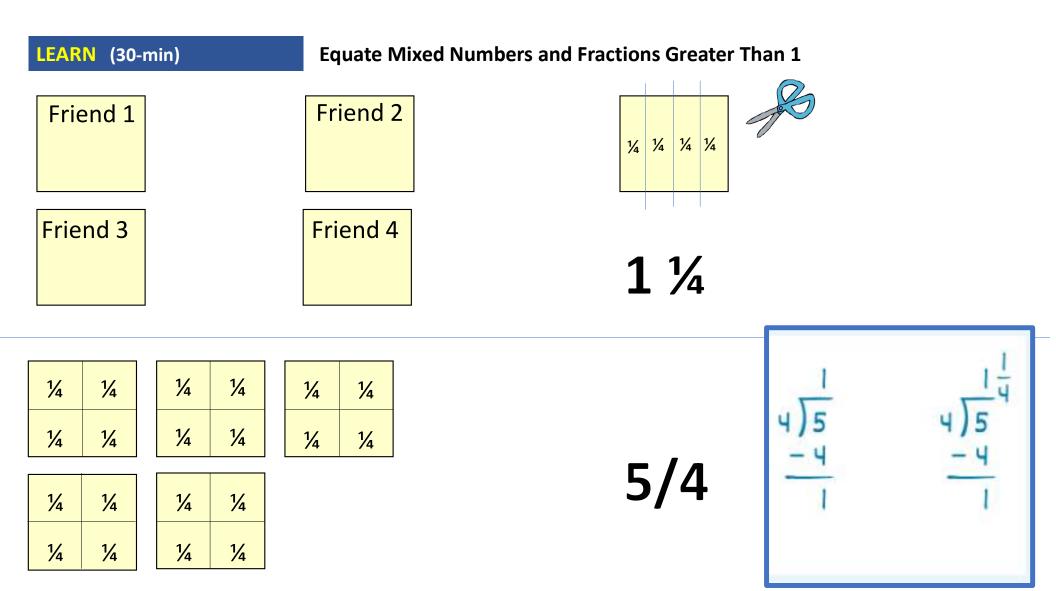
$$5 \div 4$$
 or $5/4 = 1\frac{1}{4}$

How do we know the expression is 5 ÷ 4 and not 4 ÷ 5?

TASK:

Each sticky note represents ONE brownie.

Use your materials to show how 4 friends could share 5 brownies equally.



Equate Mixed Numbers and Fractions Greater Than 1

LEARN BOOK: Page 15

Adesh is training for a 22-mile relay race. He will run the race on a 4-person team. Each team member runs the same number of miles. How many miles will each team member run?

How many members are on the team? 4

What do we know about the 4 team members?

Each team member runs the same number of miles.

What is the total number of miles in the race? 22

What mathematically do we have to do to solve this? **Divide**

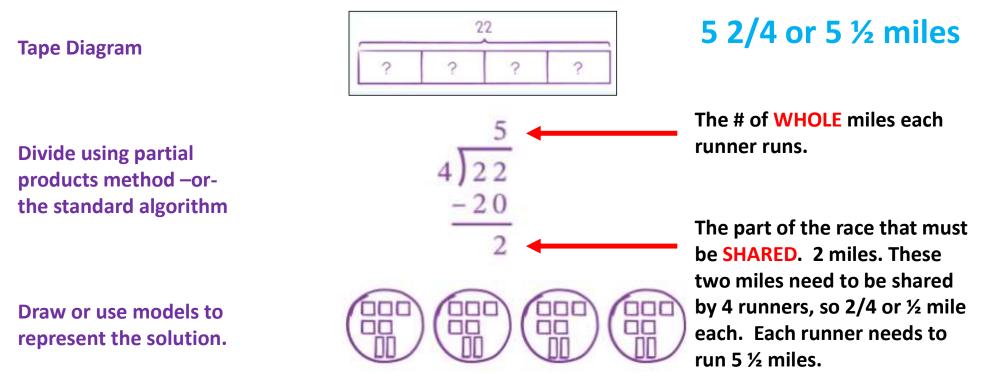
What division expression represents this situation? $22 \div 4$

What are some strategies we can use to solve this problem?

Equate Mixed Numbers and Fractions Greater Than 1

LEARN BOOK: Page 15

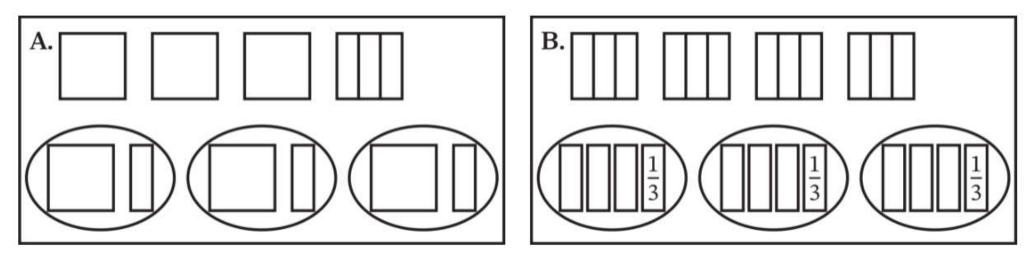
Adesh is training for a 22-mile relay race. He will run the race on a 4-person team. Each team member runs the same number of miles. How many miles will each team member run?



LAND (10-min)

Debrief

Look at Models A and B below. What is an expression that matches each model?



 $4 \div 3 = 1^{1/3}$ $4 \div 3 \text{ or } 4/3$

 $1^{1/3} = 4/3$

LAND (10-min)

Exit Ticket



	$\mathbf{\Sigma}$	2
1. Divide. Express any remainder as a fraction.		
5 ÷ 2 =		
 A cook pours 9 gallons of soup equally into 4 pots. How many gallons of soup does the cook pour into each pot? Express the number of gallons as a fraction and a mixed number. 		

Exit Ticket – PAGE 21

Small Group Time:

Problem Set Pages 17 -18 Homework: Page 15 APPLY BOOK