Eureka Math

4th Grade Module 5 Lesson 34

At the request of elementary teachers, a team of Bethel & Sumner educators met as a committee to create Eureka slideshow presentations. These presentations are not meant as a script, nor are they required to be used. Please customize as needed. Thank you to the many educators who contributed to this project!

Directions for customizing presentations are available on the next slide.



Icons



Read, Draw, Write



Learning Target



Personal White Board



Problem Set



Manipulatives Needed



Fluency



Think Pair Share



Whole Class



Individual



Partner



Small Group



Small Group Time

Lesson 34

Objective: Subtract mixed numbers.

Suggested Lesson Structure

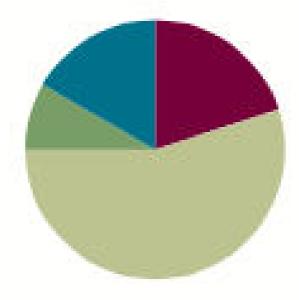
Fluency Practice (12 minute	36	Fluency Practice	(12 minutes
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Application Problem (5 minutes)

Concept Development (33 minutes)

Student Debrief (10 minutes)

Total Time (60 minutes)





I can subtract mixed numbers.

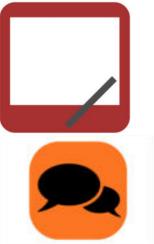


Sprints!!!



RDW Application Problem

```
There were 4\frac{1}{8} pizzas. Benny took \frac{2}{8} of a pizza. How many pizzas are left?
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8 1/10 - 8/10

Do we have enough tenths to take away? Let's decompose 8 ones 1 tenth by out 10 tenths from 8 ones.

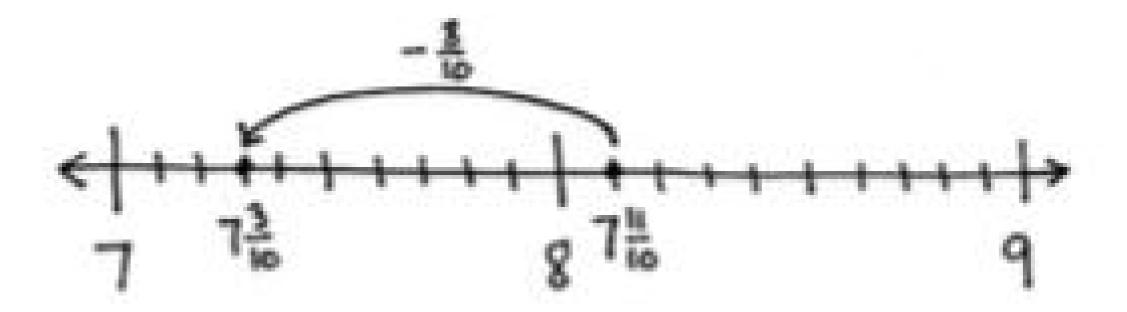
What do we now have?

7 11/10 -8/10. Now do we have enough tenths to take away?

We can easily subtract these now! What do you get?

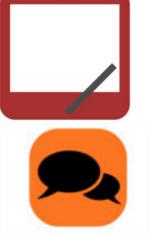


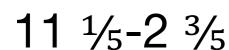
Let's see how this person solved this problem on a number line.





Let's analyze this person's work and see how they did it.





First, subtract the whole numbers.

We now have 9 1/5- 3/5

We can solve this by taking out 1 from $9 \frac{1}{5}$.

We now have $8 \frac{6}{5} - \frac{3}{5}$.

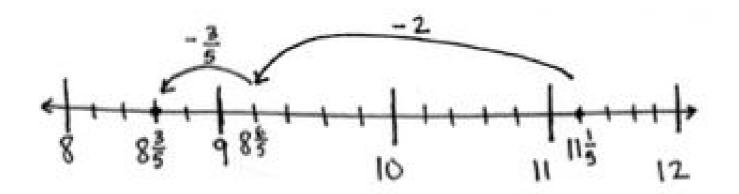
We can solve this easily!

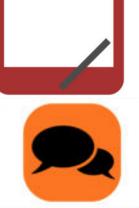
What do you get?



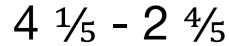


Let's analyze someone's work using two different strategies.





Subtracting, arrow way!



Let's walk through this person's thought process.

What was this person's first step? Second step?

Problem Set 12345

Problem Set

A STORY OF UNITS

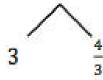
Lesson 34 Problem Set 405

Name		
Name		500

Date ____

1. Subtract.

a.
$$4\frac{1}{3} - \frac{2}{3}$$



b.
$$5\frac{2}{4} - \frac{3}{4}$$



Debrief

- With your partner, compare and contrast the methods you used for solving Problem 3. Did you find that your partner used a method more efficient than your method? How can you be sure your methods are efficient and effective?
- Solve Problem 2(b) again; this time, do not subtract the ones first. What is more challenging about this method? What could be advantageous about this method?
- How can estimation be used when checking your work for this Problem Set?
- How is renaming to subtract 3 tens 8 ones from 6 tens 4 ones similar to how you solved for Problem 3(b)? Explain.
- We know 11 8 = 13 10 = 3. What was added to the total and the part being subtracted? Think about this solution to Problem 3(c). How did this person solve Problem 3(c)?

Exit Ticket

A STORY OF UNITS

Lesson 34 Exit Ticket 4.5

Name _____

Date _____

Solve.

1.
$$7\frac{1}{6} - 2\frac{4}{6}$$