Eureka Math

4th Grade
Module 5
Lesson 30

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

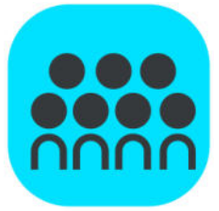
Personal White Board

Problem Set

Manipulatives Needed

Fluency

Think Pair Share



Whole Class

Individual

Partner

Small Group

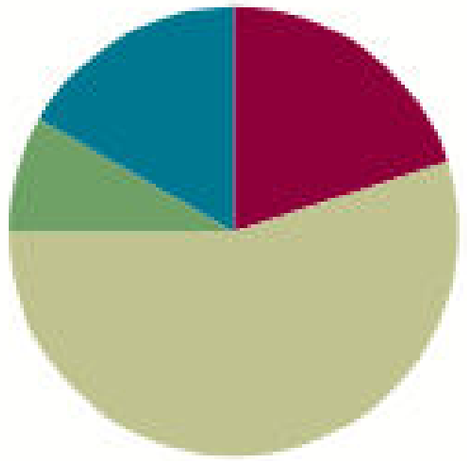
Small Group Time

Lesson 30

Objective: Add a mixed number and a fraction.

Suggested Lesson Structure

Fluency Practice	(12 minutes)
Application Problem	(5 minutes)
Concept Development	(33 minutes)
Student Debrief	(10 minutes)
Total Time	**(60 minutes)**



Add a mixed number and a fraction

Sprints!!

Compare fractions

19/5 ____ 12/3

How many wholes are in 19/5?

What about 12/3

Does this help you compare these two numbers?

Application Problem

One board measures 2 meters 70 centimeters. Another measures 87 centimeters. What is the total length of the two boards expressed in meters and centimeters?

Adding in unit form

2 ⅜ + ⅜

2 ones 3 eighths + 3 eighths

Add your ones and eighths. What do you get?

Can we keep it this way?

Let’s show this on a number too!!

Adding in unit form

$2\ \frac{3}{8} + \frac{5}{8}$

Let’s show this on a number!!

Adding fractions

When we are adding fractions we sometimes like to complete the whole.
How do we know when we have made or completed the whole?

⅜ +___= 8/8=1
What do we need to complete the whole?

What about when we have 3 ⅛?
How do you know?

Adding fractions

Practice completing the whole

4 ⅘+____=5

6= 5 ⅛+____

Adding fractions

5 2/4 + ¾=

When adding we can add our fractional units first.
What do we get when add 2/4 + ¾?
We the need to add that to our whole number.
What do we get when we add 5 + 5/4?
Can we leave it that way?
What must we do?!?!

Adding fractions

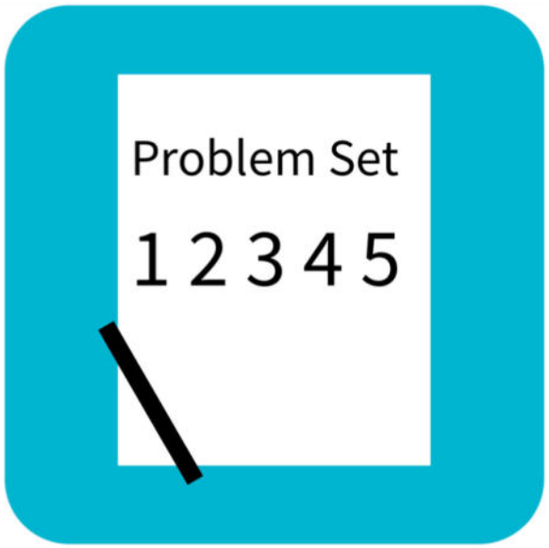
5 2/4 + ¾=
Can we add these numbers right now? How do you know?

Let's look at 5 2/4. How many fourths do we need to complete the whole?

Do we have enough in ¾ to do that?

When we take 2/4 away from ¾ to complete our whole how many do we have left?
We add those left overs to our completed whole of 6 and end up with our answer.

What do we get?



Problem Set

Name _____ Date _____

1. Solve.

   a. $3\frac{1}{4} + \frac{1}{4}$

   b. $7\frac{3}{4} + \frac{1}{4}$

Debrief

- Explain how decomposing mixed numbers helps you to find their sum.
- Explain how you solved Problem 1(d).
- Explain the challenge in solving Problem 4(d). What strategy did you use?
- If you were unsure of any answer on this Problem Set, what could you do to see if your answer is reasonable? Would drawing a picture or estimating the sum or difference be helpful?
- How does Problem 4(g) relate to the Application Problem?

Exit Ticket

Name _____ Date _____

Solve.

1. $3\frac{2}{5} + \_\_\_\_\_ = 4$