

Lesson 11: Add mixed numbers with unrelated units.

CCSS Standard – 5.NF.A.1 / 5.NF.A.2

Whiteboard Exchange: Make the Next Whole Number





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Whiteboard Exchange: Make the Next Whole Number





Whiteboard Exchange: Make the Next Whole Number

$$+\frac{4}{10}=1$$



Choral Response: Closer to 2 or 3?

Think about where 2 ¼ is located on the number line. Is 2 ¼ closer to 2 or 3? Raise your hand when you know?

$$2\frac{1}{4}$$



FLUENCY (15-min)Choral Response: Closer to 2 or 3?

Think about where 2 5/6 is located on the number line. Is 2 5/6 closer to 2 or 3? Raise your hand when you know?

$$2\frac{5}{6}$$



Choral Response: Closer to 2 or 3?

Think about where 2 6/8 is located on the number line.Is 2 6/8 closer to 2 or 3?Raise your hand when you know? $2\frac{6}{8}$



Choral Response: Closer to 2 or 3?

Think about where 2 4/10 is located on the number line.Is 2 4/10 closer to 2 or 3?Raise your hand when you know?4

$$2\frac{4}{10}$$



Choral Response: Closer to 2 or 3?

Think about where 2 4/7 is located on the number line.Is 2 4/7 closer to 2 or 3?Raise your hand when you know?4

FLUENCY (15-min)





Choral Response: Closer to 2 or 3?

Think about where 2 4/9 is located on the number line. Is 2 4/9 closer to 2 or 3? Raise your hand when you know?

FLUENCY (15-min)





Whiteboard Exchange: Make Like Units

Which fraction can we rename so the fractional units are the same? Raise your hand when you know.



Whiteboard Exchange: Make Like Units

Which fraction can we rename so the fractional units are the same? Raise your hand when you know.



Rename 1/3 into sixths to make LIKE units.

Now, rewrite the addition expression showing both fractions with the same unit.



Whiteboard Exchange: Make Like Units

Which fraction can we rename so the fractional units are the same? Raise your hand when you know.



Rename 3/4 into eighths to make LIKE units.

Now, rewrite the addition expression showing both fractions with the same unit.

Whiteboard Exchange: Make Like Units

Which fraction can we rename so the fractional units are the same? Raise your hand when you know.

$$\frac{5}{9} + \frac{2}{3}$$

Rename 2/3 into nineths to make LIKE units.



Now, rewrite the addition expression showing both fractions with the same unit.

LAUNCH (5-min)

Solve a word problem involving MIXED NUMBERS with UNRELATED units.

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Use the Read-Draw-Write process to solve the problem.

A banana muffin recipe uses $2\frac{1}{3}$ cups of flour. A blueberry muffin recipe uses $2\frac{3}{4}$ cups of flour. How many cups of flour are needed to make both recipes?





Mixed Number Addition and Application

You are going to <u>ROTATE</u> through 3 stations with a partner every 3 minutes. The stations are ordered from simple to complex.



LEARN (35-min)

Mixed Number Addition and Application

Gallery Walk

How does the work of others differ from your group's work? What did you notice about equations other groups wrote?



LEARN (35-min)

Mixed Number Addition and Application

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Make LIKE units. Then represent the equation with like units on the number line and add.

$$2\frac{1}{2} + 1\frac{1}{3} = 2\frac{3}{6} + 1\frac{2}{6} = 3\frac{5}{6}$$

$$\frac{1}{2} = \frac{1 \times 3}{2 \times 3} = \frac{3}{6}$$

$$\frac{1}{3} = \frac{1 \times 2}{3 \times 2} = \frac{2}{6}$$

$$+1$$

$$+1$$

$$+\frac{2}{6}$$

$$+1$$

LEARN (35-min)

Mixed Number Addition and Application

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Make LIKE units. Then represent the equation with like units on the number line and add.

$$1\frac{3}{4} + 3\frac{2}{3} = 1\frac{9}{12} + 3\frac{8}{12} = 4\frac{17}{12} \quad 5\frac{5}{12}$$
$$\frac{3}{4} = \frac{3 \times 3}{4 \times 3} = \frac{9}{12}$$
$$\frac{2}{3} = \frac{2 \times 4}{3 \times 4} = \frac{8}{12}$$



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