

Grade 4 Unit 3

Lesson 8

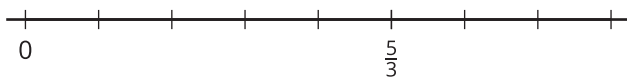
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Unit 3 Lesson 8: Addition of Fractions

WU Notice and Wonder: A Fraction on a Number Line (Warm up)

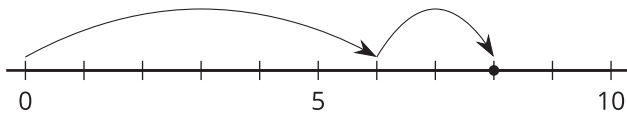
Student Task Statement

What do you notice? What do you wonder?



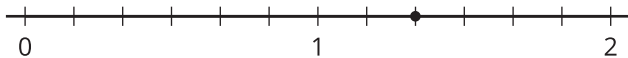
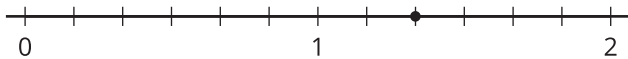
1 Sum of Jumps

Images for Launch

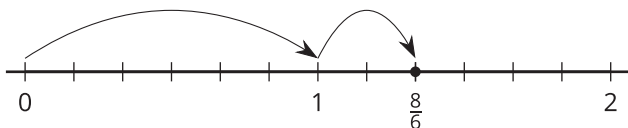


Student Task Statement

1. a. On each number line, draw two “jumps” to show how to use sixths to make a sum of $\frac{8}{6}$. Then, write an equation to represent each combination of jumps.

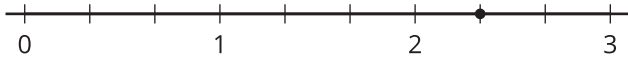


- b. Noah draws the following diagram and writes: $\frac{8}{6} = \frac{6}{6} + \frac{2}{6}$ and $\frac{8}{6} = 1 + \frac{2}{6}$. Which equation is correct? Explain your reasoning.



2. a. On each number line, draw “jumps” to show how to use thirds to make a sum of $\frac{7}{3}$. Then, write an

equation to represent each combination of jumps.



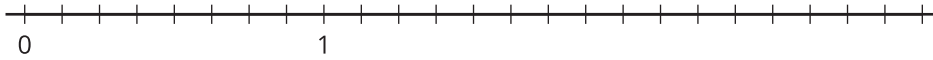
b. Write $\frac{7}{3}$ as a sum of a whole number and a fraction.

2 What is the Sum?

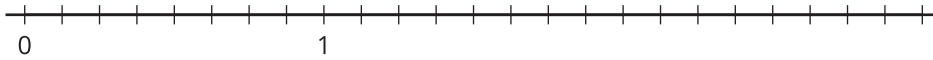
Student Task Statement

1. Use a number line to represent each addition expression and to find its value.

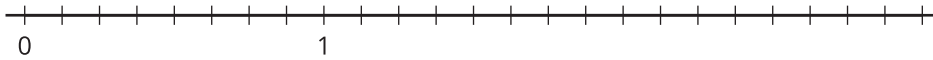
a. $\frac{5}{8} + \frac{2}{8}$



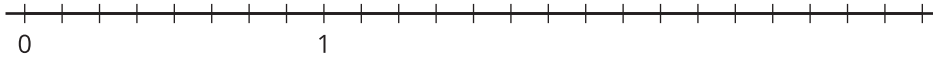
b. $\frac{1}{8} + \frac{9}{8}$



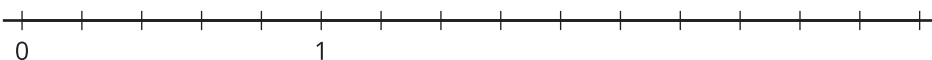
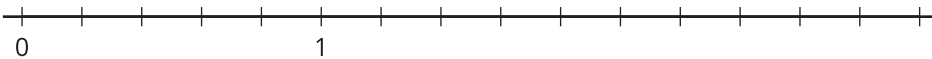
c. $\frac{11}{8} + \frac{9}{8}$



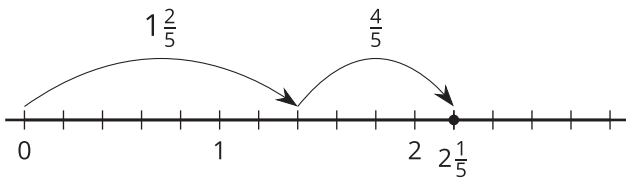
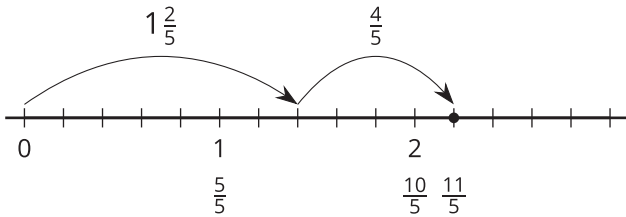
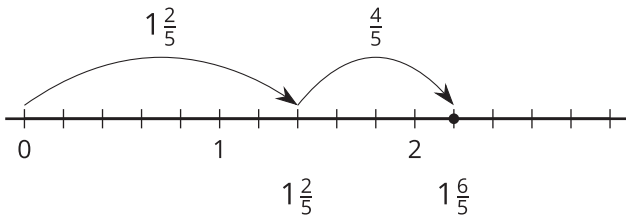
d. $2\frac{1}{8} + \frac{4}{8}$



2. Priya says the sum of $1\frac{2}{5}$ and $\frac{4}{5}$ is $1\frac{6}{5}$. Kiran says the sum is $\frac{11}{5}$. Tyler says it is $2\frac{1}{5}$. Do you agree with any of them? Explain or show your reasoning. Use one or more number lines if you find them helpful.



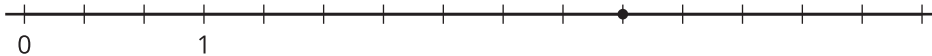
Activity Synthesis



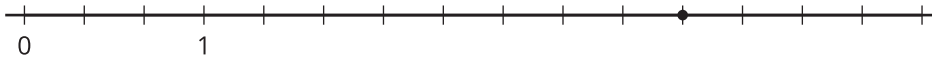
3 Make Two Jumps (Optional)

Student Task Statement

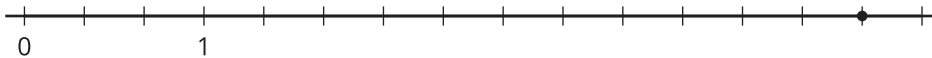
Here are four number lines, each with a point on it.



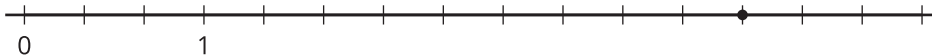
1.



2.



3.



4.

For each number line, label the point. This is your target. Make two forward jumps to get from 0 to the target.

- Pick a card from the set given to you. Use the fraction on it for your first jump. Draw the jump and label it with the fraction.
- From there, draw the second jump to reach the target. What fraction do you need to add? Label the jump with the fraction.

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- Write an equation to represent the sum of your two fractions.