Mixed Numbers

Vocabulary

improper fraction:

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mixed number:

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proper fraction:

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In this activity, you will solve problems involving improper fractions and mixed numbers.

1. Which of the following could be written as the sum of 2 and a proper fraction where the numerator is less than the denominator? Explain your reasoning.

   a. $\dfrac{11}{5}$ b. $\dfrac{7}{2}$ c. $\dfrac{3}{4} + \dfrac{9}{5}$

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2. Identify the following statement as true or false: "A fraction whose denominator is 8 will be between 3 and 4 if the numerator is between 18 and 32." Explain your reasoning.

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3. A recipe calls for $2\dfrac{1}{3}$ cups of flour.

   Suppose you only have a $\dfrac{1}{3}$-cup measuring cup. How many times will you have to fill the $\dfrac{1}{3}$ cup? Explain your reasoning.

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4. ◎ Arnie hiked $\frac{14}{8}$ miles of a 4-mile hiking trail. Has Arnie hiked more

or less than half of the total length of the trail? Complete the number line to show your thinking. Explain your reasoning.

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    0       1       2       3       4
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