Comparing Fractions

Content Standard: *Compare* two fractions with the same numerator or the same denominator by reasoning about their size. *Recognize* that comparisons are valid only when the two fractions refer to the same whole. *Record* the comparisons with the symbols (>:, <, or =) and *justify* the conclusions.

- ✓ I can recognize whether fractions refer to the same whole.
- ✓ I can decide if comparison of fractions can be made (if they refer to the same whole).
- ✓ I can explain why fractions are equivalent.
- ✓ I can compare two fractions with the same numerator by reasoning about their size.
- ✓ I can compare two fractions with the same denominator by reasoning about their size.
- ✓ I can record the results of comparisons using symbols >, =, or <.

Process Standard: Construct an argument and justify the argument with visual and/or written support.

Task (Summative):
Answer the questions below. Make sure you show your work!

1. Nathan ran 3/6 of a mile in PE today. Alex ran 3/8 of a mile in PE today. Who ran farther?

   __________________________________________________________
   __________________________________________________________
   __________________________________________________________

Equation and Connection:

_________________________________________________________________________________
_________________________________________________________________________________
2. Samantha baked a batch of cookies. 1/6 of the cookies were oatmeal raisin cookies. 1/3 of the cookies were chocolate chip cookies. Which type of cookie did Samantha bake the most of?

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Equation and Connection:
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________________________________________________________________________

3. Michelle had a bag of pretzels. She ate ½ of the pretzels in the bag. Her friend Mary ate ¼ of the pretzels in the bag. Who ate more pretzels?

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________________________________________________________________________

Equation and Connection:
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________________________________________________________________________
4. Ashley bought a chocolate bar. She decided to take $\frac{2}{6}$ of the chocolate bar and gave $\frac{4}{6}$ of the chocolate bar to her friend Drew. Who has more of the chocolate bar?

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_________________________________________________________________________

Equation and Connection:

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_________________________________________________________________________________
_________________________________________________________________________________

Rubric (for each problem):

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Excellent</th>
<th>Proficient</th>
<th>Needs Improvement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construct Argument</td>
<td>Clearly expresses argument</td>
<td>Vaguely expresses argument</td>
<td>Unable to express argument</td>
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<tr>
<td>Justify the Argument</td>
<td>-Justified their argument using numbers, pictures, charts and/or words</td>
<td>Justified their argument using numbers, pictures, charts and/or words</td>
<td>Unable to justify their argument using numbers, pictures, charts and/or words</td>
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<tr>
<td></td>
<td>-Makes connections between models and equations</td>
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