

## Task 4: Posing Problems to Elicit Specific Strategies

Name: \_\_\_\_\_

As a teacher you will often need to create problems for your students with a particular goal in mind. Your goal here is to create four fraction comparison problems as specified below (all fractions should be provided in simplest form). *Carefully choose your fractions so that no strategy other than the one you are targeting will be especially easy or obvious.* For each problem, specify the strategy that you are targeting, solve the problem using the targeted strategy, and explain/justify why you chose the fractions you did.

Instructions	Fractions to compare	Solution using your targeted strategy	Explanation/justification for the fractions you selected
1. Design a problem that can be solved using the <i>benchmark value between</i> strategy, with a benchmark other than $\frac{1}{2}$ or 1.  <i>Targeted benchmark value:</i>			
2. Design a problem that requires using the <i>benchmark value distance</i> strategy.  <i>Targeted benchmark value:</i>			

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Name: \_\_\_\_\_

Instructions	Fractions to compare	Solution using your targeted strategy	Explanation/justification for the fractions you selected
3. Design a problem that can be solved using the <i>greater number of larger pieces</i> strategy.			
4. Design a problem that requires using <i>any</i> strategy of your choice ( <i>except same size of pieces</i> ).  <i>Targeted strategy:</i>			