## Unit 9 Lesson 1: Add, Subtract, and Multiply Fractions

### WU Number Talk: Fluency and Fractions (Warm up)

#### Student Task Statement

Find the value of each expression mentally.

### 1 Let’s Make Head Wraps!

#### Student Task Statement



Jada and Lin saw a picture of head wraps made of African wax print fabric and would like to make their own.

1. Jada stitches together 5 pieces of fabric that each have a length of yard. Write an equation to show the total length of fabric Jada used.
2. Lin stitches together 3 pieces of fabric that are each yard long. Write an equation to show the total length of fabric Lin used.
3. Who used more fabric? Explain or show your reasoning.

### 2 Make 2 Yards of Fabric

#### Student Task Statement

Jada and Lin’s moms taught the fourth-grade class how to combine and use fabric pieces for head wraps. The lengths of each piece of fabric are listed here.

yard yard yard

yard

 yards yard yard

yard

yard yard yard

yard

yard yard

yard

Find as many different combinations of fabric that would have a length of 2 yards as you can. Each piece of fabric can only be used one time. Write an equation for each combination.

### 3 Play by the Rules

#### Student Task Statement

1. Here are four fractions:
   1. What is the sum of all the fractions?
   2. Select two fractions with a difference that is less than . Show or explain your reasoning.
   3. Select two fractions with a sum greater than 3. Show or explain your reasoning.
2. Here are four new fractions:

* Use them to make the value 1, following these rules:
  + Use addition, subtraction, or both.
  + Use all four fractions.
  + Use each fraction only one time.

1. Try to make the value of 1 again using the following fractions and the same rules.



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