Name:	Date:	

Tape diagrams are a visual way to express solutions for Mixed number addition problems. This can be done in 4 steps:

Consider $2\frac{3}{5} + 3\frac{1}{3}$

Step 1: Use the Associative Property

Use the associative property of addition to add the whole numbers: $(2+3)+(\frac{3}{5}+\frac{1}{3})$

... which becomes: $5 + (\frac{3}{5} + \frac{1}{3})$

Step 2: Tape Diagram the Expression

The whole numbers are resolved, but the fraction denominators are mismatched.



Step 3: Make a Table

We can find the least common multiple by making a factor table for each denominator. When you reach the least common multiple, check the factor.

Factor: (x)	1	2	3	4	5	
Multiples of 3 :	3	6	9	12	15	Each partition of three is 5/15
Factor (x):	1	2	3			
Multiples of 5 :	5	10	15			Each partition of five is 3/15

The least common multiple is 15.

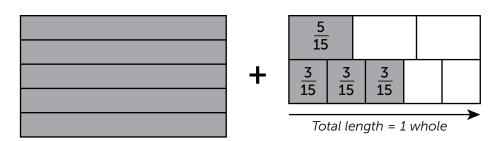
The denominators are in 15ths.

Each partition of 3 is 5/15 and

Each partition of 5 is 3/15, like below:

Step 4: Tape Diagram the Fractions and Solve

Use the information from the table to label your tape diagram fractions.



The sum can now be calculated as: $5 + \frac{3}{15} + \frac{3}{15} + \frac{3}{15} + \frac{5}{15} = 5 \frac{14}{15}$

Name:	Date:
Try It! Directions: Use the 4 step procedure to create tape diagram su	ums of the following exercises.
1. $2\frac{1}{4} + 3\frac{4}{5}$	
Step 1: Use the Associative Property	
Step 2: Tape Diagram the Expression	
Step 3: <i>Make a Table</i>	

Name:	Date:
2. $4\frac{1}{2} + 1\frac{2}{6}$	
Step 1: Use the Associative Property	

Step 2: Tape Diagram the Expression

Step 3: Make a Table

Step 4: Tape Diagram the Fractions and Solve

Name:	Date:
3. $2\frac{1}{8} + 7\frac{1}{6}$	
Step 1: Use the Associative Property	

Step 2: Tape Diagram the Expression

Step 3: Make a Table

Step 4: Tape Diagram the Fractions and Solve

Name:	Date:
4. Create and solve your own mixed number addition problem using the 4-step procedure from above.	
Step 1: Use the Associative Property	
Step 2: Tape Diagram the Expression	
Step 3: <i>Make a Table</i>	
Step 4: Tape Diagram the Fractions and Solve	