

# Tape Diagrams: Mixed Number Sums

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

Date: \_\_\_\_\_

## Try It!

Directions: Use the four-step procedure to create tape diagram sums of the following exercises.

1.  $2\frac{1}{4} + 3\frac{4}{5}$

Step 1: Use the Associative Property  $(2 + 3) + (\frac{1}{4} + \frac{4}{5})$

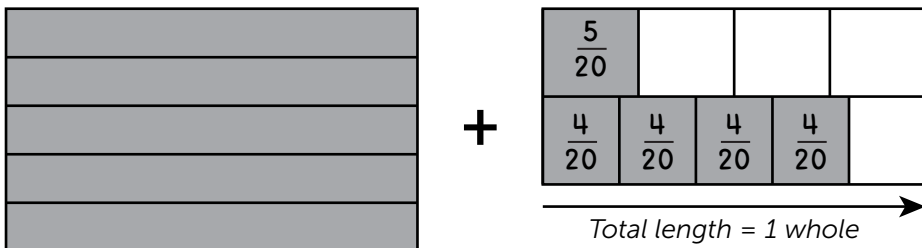
Step 2: Tape Diagram the Expression  $5 + (\frac{1}{4} + \frac{4}{5})$



## Step 3: Make a Table

Factor: (x)	1	2	3	4	5	
Multiples of 4:	4	8	12	16	20	Each partition of four is 5/20
Factor (x):	1	2	3	4		
Multiples of 5:	5	10	15	20		Each partition of five is 4/20

## Step 4: Tape Diagram the Fractions and Solve



$$5 + \frac{4}{20} + \frac{4}{20} + \frac{4}{20} + \frac{4}{20} + \frac{5}{20} = 5\frac{21}{20} = 6\frac{1}{20}$$

# Tape Diagrams: Mixed Number Sums

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2.  $4\frac{1}{2} + 1\frac{2}{6}$

Step 1: Use the Associative Property  $(4 + 1) + (\frac{1}{2} + \frac{2}{6})$

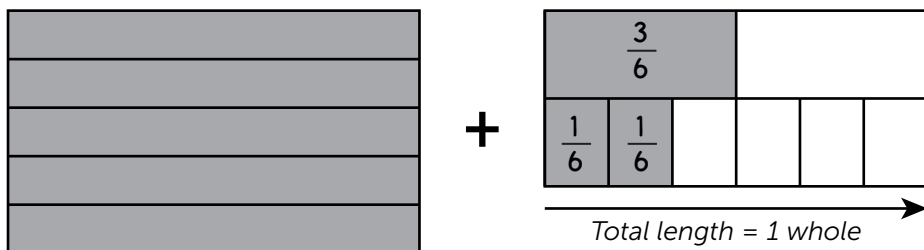
Step 2: Tape Diagram the Expression  $5 + (\frac{1}{2} + \frac{2}{6})$



Step 3: Make a Table

Factor: (x)	1	2	3	
Multiples of 2:	2	4	6	Each partition of two is 3/6
Factor (x):	1			
Multiples of 6:	6			Each partition of six is 1/6

Step 4: Tape Diagram the Fractions and Solve



$$5 + \frac{3}{6} + \frac{1}{6} + \frac{1}{6} = 5\frac{5}{6}$$

## Tape Diagrams: Mixed Number Sums

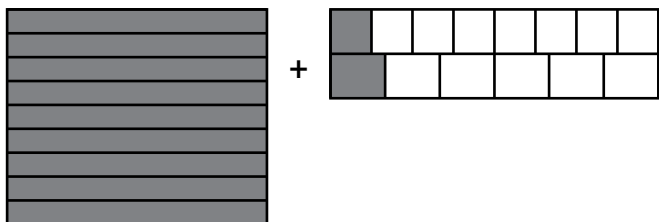
Name: \_\_\_\_\_

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3.  $2\frac{1}{8} + 7\frac{1}{6}$

Step 1: Use the Associative Property  $(2 + 7) + (\frac{1}{8} + \frac{1}{6})$

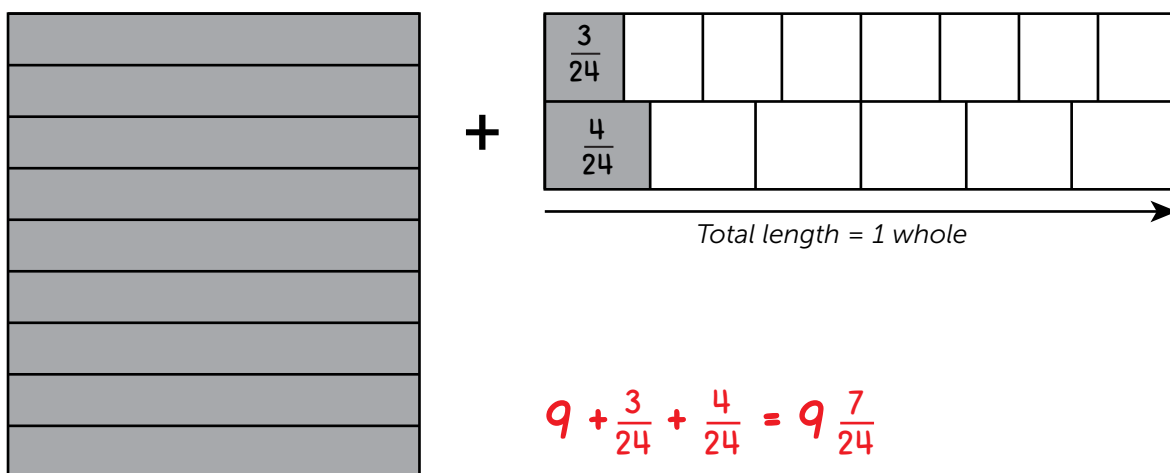
Step 2: Tape Diagram the Expression  $9 + (\frac{1}{8} + \frac{1}{6})$



Step 3: Make a Table

Factor: (x)	1	2	3	4	
Multiples of 6:	6	12	18	24	Each partition of six is 4/24
Factor (x):	1	2	3		
Multiples of 8:	8	16	24		Each partition of eight is 3/24

Step 4: Tape Diagram the Fractions and Solve



# Tape Diagrams: Mixed Number Sums

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4. Create and solve your own mixed number addition problem using the four-step procedure from above. \_\_\_\_\_

Step 1: *Use the Associative Property* \_\_\_\_\_

Step 2: *Tape Diagram the Expression*

Answers will vary, but should clearly show all four steps in the procedure from today's lesson.

Step 3: *Make a Table*

Step 4: *Tape Diagram the Fractions and Solve*