


Number date:	WALT: Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions	Teacher Assessment Fluency: Varied fluency: Reasoning/PS: Greater depth: Extension:
Roman numeral date:	GD: Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions to solve multi-step problems Strategy: Find the lowest common multiple	
SA:		Self-Assessment Fluency: Varied fluency: Reasoning/PS: Greater depth: Extension:

### Fluency

Tommy is adding mixed numbers. He adds the wholes and then adds the fractions. Then, Tommy simplifies his answer.


$$1\frac{1}{2} + 2\frac{1}{6} = 1\frac{3}{6} + 2\frac{1}{6} = 3\frac{4}{6} = 3\frac{2}{3}$$


Use Tommy's method to add the fractions.

$$3\frac{1}{2} + 2\frac{3}{8} = \quad 34\frac{1}{9} + 5\frac{2}{5} = \quad 12\frac{5}{12} + 2\frac{1}{7} =$$

### Varied Fluency

Whitney is also adding mixed numbers. She converts them to improper fractions, adds them, and then converts them back to a mixed number.

$$1\frac{1}{2} + 2\frac{1}{6} = \frac{3}{2} + \frac{13}{6} = \frac{9}{6} + \frac{13}{6} = \frac{22}{6} = 3\frac{4}{6} = 3\frac{2}{3}$$


Use Whitney's method to add the fractions.

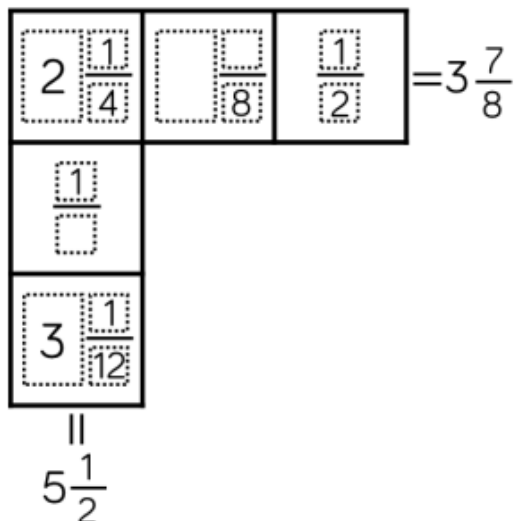
$$3\frac{1}{2} + 2\frac{3}{8} \quad 2\frac{1}{9} + 2\frac{2}{5} \quad 2\frac{7}{9} + 2\frac{2}{5} \quad 4\frac{3}{4} + 3\frac{11}{15}$$

### Reasoning and Problem Solving

Jug A has  $2\frac{3}{4}$  litres of juice in it. Jug B has  $3\frac{4}{5}$  litres of juice in it.  
How much juice is there in Jug A and Jug B altogether?

### Greater Depth

Each row and column adds up to make the total at the end.  
Use this information to complete the diagram.



Extension

Dora is baking muffins.

She uses  $2\frac{1}{2}$  kg of flour,  $1\frac{3}{5}$  kg of sugar and  $1\frac{1}{4}$  kg of butter.

How much flour, sugar and butter does she use altogether?

How much more flour does she use than butter?

How much less butter does she use than sugar?