

Number date:	WALT: Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions	Teacher Assessment Fluency:
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	Varied fluency: Reasoning/PS: Greater depth: Extension:
SA:		Self-Assessment Fluency: Varied fluency: Reasoning/PS: Greater depth: Extension:

Fluency

Amir is calculating $\frac{7}{9} - \frac{1}{2}$

He finds the lowest common multiple of 9 and 2
LCM of 9 and 2 is 18

$$\frac{7}{9} - \frac{1}{2} = \frac{14}{18} - \frac{9}{18} = \frac{5}{18}$$

Use this method to calculate:

$$\frac{3}{4} - \frac{1}{3} = \frac{3}{4} - \frac{3}{12} = \frac{3}{4} - \frac{2}{12} = \frac{3}{4} - \frac{7}{12}$$

Reasoning and Problem Solving

On Friday, Ron walks $\frac{5}{6}$ km to school, $\frac{3}{4}$ km to the shops and $\frac{4}{5}$ km home. How far does he walk altogether?

Greater Depth

A car is travelling from Halifax to Brighton.

In the morning, it completes $\frac{2}{3}$ of the journey.

In the afternoon, it completes $\frac{1}{5}$ of the journey.

What fraction of the journey has been travelled altogether?

What fraction of the journey is left to travel?

If the journey is 270 miles, how far did the car travel in the morning?

How far did the car travel in the afternoon?

How far does the car have left to travel?



Varied Fluency

Eva has a bag of carrots weighing $\frac{3}{4}$ kg and a bag of potatoes weighing $\frac{2}{5}$ kg. She is calculating how much they weigh altogether.



The LCM of 4 and 5 is 20. I will convert the fractions to twentieths.

$$\frac{3}{4} + \frac{2}{5} = \frac{15}{20} + \frac{8}{20} = \frac{23}{20} = 1\frac{3}{20} \text{ kg}$$

Use this method to calculate:

$$\frac{1}{4} + \frac{2}{5} = \quad \frac{7}{8} + \frac{1}{3} = \quad \frac{5}{6} + \frac{5}{7} = \quad \frac{13}{20} + \frac{2}{3} =$$

Extension

Mr and Mrs Rose are knitting scarves.

Mr Rose's scarf is $\frac{5}{9}$ m long.

Mrs Rose's scarf is $\frac{1}{5}$ m longer than Mr Rose's scarf.

How long is Mrs Rose's scarf?

How long are both the scarves altogether?

Fill in the boxes to make the calculation correct.

$$1\frac{\square}{10} = \frac{3}{\square} + \frac{\square}{10}$$

