

Add Mixed Numbers

1. Frasier and Ellan are going on holiday. They want to visit two places but want to use 5 or less tanks of petrol to get to their final destination.

Route	Petrol needed
A to B or B to A	$1 \frac{2}{5}$ tanks
A to C or C to A	$1 \frac{9}{11}$ tanks
A to D or D to A	$3 \frac{3}{7}$ tanks
B to C or C to B	$1 \frac{9}{10}$ tanks
B to D or D to B	$2 \frac{4}{5}$ tanks
C to D or D to B	$2 \frac{7}{8}$ tanks



Explore where they could have started and two journeys they could take that use 5 or less tanks of petrol.

DP

2. Mrs Clarke has spilled coffee over Lisa's maths book whilst marking her work.

$$3 \frac{\text{coffee splash}}{\text{coffee splash}} + \frac{\text{coffee splash}}{\text{coffee splash}} = 6 \frac{\text{coffee splash}}{\text{coffee splash}}$$

15	1	18	20	8	12
14	4	5	17	28	24

Use the digit cards to explore the different calculations Lisa could have completed if all the denominators were different and the second fraction was improper.

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Various answers, for example: A to B and B to C; $1 \frac{2}{5} + 1 \frac{9}{10} = 3 \frac{3}{10}$

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Various answers, for example: $3 \frac{1}{4} + \frac{18}{5} = 6 \frac{17}{20}$

DP