Add 3 or More Fractions

7a. Rita solved the calculation below.

$$\frac{1}{6} + \frac{1}{3} + \frac{1}{4} + \frac{1}{9} = \frac{32}{36}$$

Is she correct? Prove it.

GD R

Add 3 or More Fractions

7b. Noel has solved the calculation below.

$$\frac{1}{14} + \frac{2}{6} + \frac{1}{2} + \frac{1}{21} = \frac{40}{42}$$

Is he correct? Prove it.

GD R

8a. Use the clues below to work out which 3 fractions add together to total $\frac{25}{36}$.

- One denominator is 36. Two of the denominators are less than 10 but greater than 5.
- The denominators are all different and are factors of 36.
- One of the numerators is 2.
- The other two numerators are odd.

GD PS

8b. Use the clues below to work out which 3 fractions add together to total $\frac{26}{30}$.

- One denominator is 30. The others are different multiples of 5.
- One denominator can go into 30 three times.
- All of the numerators are even.
- No numerator is greater than 4.

GD PS

9a. True or false? Jen's calculation gives the larger answer.

Jen

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

$\frac{1}{6} + \frac{2}{7} + \frac{1}{2}$

Todd

Explain your answer.

GD R

9b. True or false? Kai's calculation gives the larger answer.

Rosie

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

$\frac{1}{6} + \frac{1}{2} + \frac{1}{5}$

Kai

Explain your answer.

GD R