

Reasoning and Problem Solving Add and Subtract Fractions

Developing

1a. Mel is incorrect as the missing numerator is 2.

2a. A) <, B) =

3a. Any combination where the numerator totals 5 e.g.

$$\frac{\boxed{4}}{\boxed{6}} + \frac{\boxed{1}}{\boxed{6}}$$

Expected

4a. Sara is incorrect as the missing numerator is 3.

5a. A) =, B) <

6a. Any combination where the numerators total 7 e.g.

$$\frac{\boxed{4}}{\boxed{5}} + \frac{\boxed{3}}{\boxed{5}}$$

Greater Depth

7a. Asha is correct as the numerators must total 12.

8a. A) =, B) <

9a. Any combination where the numerators total 12 and the denominator is 9 e.g.

$$\frac{\boxed{6}}{\boxed{9}} + \frac{\boxed{6}}{\boxed{9}}$$

Reasoning and Problem Solving Add and Subtract Fractions

Developing

1b. Ian is incorrect as the missing numerator is 6.

2b. A) =, B) >

3b. Any combination where the numerators give an answer of 2 when subtracted e.g.

$$\frac{\boxed{7}}{\boxed{9}} - \frac{\boxed{5}}{\boxed{9}}$$

Expected

4b. Ted is incorrect as the missing numerator is 5.

5b. A) >, B) =

6b. Any combination where the numerators total 13 e.g.

$$\frac{\boxed{8}}{\boxed{9}} + \frac{\boxed{5}}{\boxed{9}}$$

Greater Depth

7b. Ivor is incorrect as the numerator must total 15 once subtracted.

8b. A) >, B) <

9b. Any combination where the numerators total 18 and the denominator is 12 e.g.

$$\frac{\boxed{10}}{\boxed{12}} - \frac{\boxed{8}}{\boxed{12}}$$