Miss Hughes' group – Reasoning and problem solving answers

Bronze

1a. Finn is incorrect because he has added the denominators as well as the numerators. The correct answer is $\frac{3}{4}$

2a. Various possible answers, for example:

$\frac{0}{4} + \frac{3}{4}$, $\frac{1}{4} + \frac{2}{4}$ and $\frac{2}{4} + \frac{1}{4}$

3a. $\frac{2}{4} + \frac{1}{4} = \frac{3}{4}$

1b. Caitlyn is incorrect because she has incorrectly added the numerators. The correct answer is $\frac{3}{4}$

2b. Various possible answers, for example:

$\frac{0}{5} + \frac{4}{5}$, $\frac{1}{5} + \frac{3}{5}$ and $\frac{2}{5} + \frac{2}{5}$

3b. $\frac{1}{4} + \frac{0}{4} = \frac{1}{4}$

Silver

4a. Kamir is incorrect because he has added the denominators instead of the numerators. The correct answer is $\frac{6}{5}$

5a. Various possible answers, for example:

$\frac{0}{10} + \frac{6}{10}$, $\frac{1}{10} + \frac{5}{10}$ and $\frac{2}{10} + \frac{4}{10}$

6a. $\frac{3}{8} + \frac{3}{8} + \frac{1}{8} = \frac{7}{8}$

4b. Georgina is correct because she has only added the numerators. The denominators have stayed the same.

5b. Various possible answers, for example:

$\frac{0}{10} + \frac{7}{10}$, $\frac{1}{10} + \frac{6}{10}$ and $\frac{2}{10} + \frac{5}{10}$

6b. $\frac{5}{12} + \frac{2}{12} + \frac{2}{12} = \frac{9}{12}$

Gold

7a. Joshua is correct because he has simplified $\frac{6}{22}$ to $\frac{3}{11}$ in order the match the denominators in the other numbers in order to get the correct answer.

8a. Various possible answers, for example:

$\frac{0}{12} + \frac{8}{12}$, $\frac{1}{12} + \frac{7}{12}$ and $\frac{2}{12} + \frac{6}{12}$

9a. $\frac{2}{12} + \frac{3}{12} + \frac{4}{12} = \frac{9}{12}$

7b. Dakota is incorrect because she has added the denominators along with the numerators. The correct answer is $\frac{9}{12}$

8b. Various possible answers, for example:

$\frac{0}{12} + \frac{6}{12}$, $\frac{1}{12} + \frac{5}{12}$ and $\frac{2}{12} + \frac{4}{12}$

9b. $\frac{4}{11} + \frac{3}{11} + \frac{3}{11} = \frac{10}{11}$