Reasoning and Problem Solving
What is a Fraction?

Developing

1a. C is the odd one out. Accept any drawn representation of $\frac{1}{8}$.

2a. Leah is incorrect because the whole is six. The fraction should be $\frac{1}{6}$.

3a. Ciaran has written the fraction in the correct position but the number line is in 12ths, not 8ths. He should have written $\frac{1}{12}$.

Developing

1b. B is the odd one out. Accept any drawn representation of $\frac{1}{6}$.

2b. Zac is correct because there are 11 birds and one has different feathers.

3b. Scarlett has written the fraction on the $\frac{8}{9}$ increment. The fraction should have been written on the first increment.

Expected

4a. D is the odd one out. Accept any drawn representation of $\frac{2}{6}$.

5a. Tom is correct because there are 7 birds in total, 3 are red. The fraction could have also been $\frac{4}{7}$.

6a. Sasha has written the fraction on the 4th increment. The number line is in 12ths so $\frac{5}{12}$ should have been written on the 5th increment.

Expected

4b. A is the odd one out. Accept any drawn representation of the fraction $\frac{4}{10}$.

5b. Cleo is incorrect because the whole is 8. The fraction should be $\frac{3}{8}$ or $\frac{5}{8}$.

6b. Peter has written the fraction in the correct position but the number line is in 8ths, not 6ths. He should have written $\frac{2}{8}$.

Greater Depth

7a. B is the odd one out. Accept two representations of $\frac{4}{7}$.

8a. Amy is correct because there are 12 fish in total. The fractions of fish are $\frac{3}{12}$, $\frac{4}{12}$ and $\frac{5}{12}$.

9a. Sam is incorrect because he has placed the fraction half way along the line, which would be $\frac{4}{8}$.

Greater Depth

7b. B is the odd one out. Accept two representations of $\frac{2}{9}$.

8b. Vikram is incorrect because there are 11 birds but there are more than two that are the same. The fraction of birds are $\frac{4}{11}$, $\frac{4}{11}$ and $\frac{3}{11}$.

9b. Olivia is incorrect because the fraction has been written on the $\frac{4}{12}$ interval.

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