

Reasoning and Problem Solving Using Fractions as Operators

Developing

1a. $\frac{1}{4}$

2a. D is the odd one out because A and C = B.

3a. Various answers, for example: Danny is correct because he has used commutativity. Sarah is incorrect because 12 needs to be divided by 3 rather than multiplied.

Expected

4a. $\frac{3}{4}$

5a. C is the odd one out because B and D = A.

6a. Various answers, for example: Scott is correct because he has used commutativity. Anya is incorrect because 10 lots of $3 \times 5 = 150$ where as $\frac{3}{5}$ of $10 = 6$.

Greater Depth

7a. $\frac{4}{3}$

8a. B is the odd one out because A and C = D.

9a. Various answers, for example: Tasmin is correct because she has used commutativity. Alfie is incorrect because he should have done 16 lots of $\frac{6}{4}$ instead of 16 lots of 6×4 .

Reasoning and Problem Solving Using Fractions as Operators

Developing

1b. $\frac{1}{3}$

2b. B is the odd one out because A and C = D.

3b. Various answers, for example: Kiran is correct because she has used commutativity. Jake is incorrect because 14 needs to be divided by 2 rather than multiplied.

Expected

4b. $\frac{2}{3}$

5b. B is the odd one out because A and C = D.

6b. Various answers, for example: Lily is correct because she has used commutativity. Mo is incorrect because he should do 12 lots of three quarters instead of 12 lots of three.

Greater Depth

7b. $\frac{5}{4}$

8b. A is the odd one out because B and C = D.

9b. Various answers, for example: Luke and Freya are correct. They have both used commutativity. 'Lots of' means the same as multiplying.