

Reasoning and Problem Solving Inverse Operations

Developing

- 1a. $4 \div 3 = 12$ is incorrect, because $4 \div 3 = 1.3$, not 12.
2a. No, Raoul is incorrect, because $4 \times 4 = 16$. Therefore, $16 \div 4 = 4$.
3a. Daisy = 7, Dean = 20 and Tia = 15

Expected

- 4a. $40 \times 5 = 8$ is incorrect, because $40 \times 5 = 200$, not 8.
5a. Jon is incorrect, because $12 \div 6 = 2$.
6a. Evie = 7, Ian = 64 and Lily = 60

Greater Depth

- 7a. $72 = 8 \div 9$ is incorrect because $8 \div 9 = 0.89$ and not 72, it is not part of the fact family.
8a. Stacey is correct, because 16 is double 8, so the answer will be double 48, which is 96.
9a. They are thinking of 72.

Reasoning and Problem Solving Inverse Operations

Developing

- 1b. $21 = 5 \times 4$ is incorrect, because $5 \times 4 = 20$, not 21.
2b. Yes, Leyla is correct, because $60 \div 6 = 10$.
3b. Leo = 25, Carly = 6 and Seb = 8

Expected

- 4b. $42 = 6 \div 7$ is incorrect, because $6 \div 7 = 0.86$, not 42.
5b. Seema is incorrect, because $12 \div 4 = 3$.
6b. Josh = 36, Seema = 9 and Archie = 6

Greater Depth

- 7b. $12 \div 9 = 108$ is incorrect because $12 \div 9 = 1.33$ and not 108, it is not part of the fact family.
8b. Danny is correct, because 16 is double 8, so the answer will be double 24, which is 48.
9b. They are thinking of 96.