Reasoning and Problem Solving Calculate Quantities

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Developing

1a. Mia has divided by 2 instead of multiplying by 2. The whole should be 24.

2a. Danny is incorrect because he needsto multiply by 4. The correct answer is 20.

3a. Alfie has the most presents because he has 15 and Sally has 12.

<u>Developing</u>

1b. Freddy has multiplied by 2 instead of

3. The whole should be 27.

2b. Ellie is correct because 10 + 10 + 10

+10 + 10 is the same as 5 x 10 to find $\frac{1}{5}$.

3b. David's washing line is the longest because he has used 35 pegs and Elsa

Expected

4a. Margot has multiplied 18 by 2 instead of dividing by 2 and multiplying by 9. The whole should be 81.

5a. Fiona is incorrect because she has mixed up the operations for the numerator and denominator. She should have divided by 6 and multiplied by 10.

6a. Sam's tower is the tallest because he has used 27 bricks and Brad only used 20.

Expected

has only used 32.

4b. Taryn has divided by 5 and multiplied by 3 instead of dividing by 3 and multiplying by 5. The whole should be 25.

5b. Malakai is incorrect because $\frac{4}{12} = \frac{1}{3}$ so he should have multiplied by 3.

6b. Sia's trail is the longest because she has used 21 dominoes and Hugo has only used 18 dominoes.

Greater Depth

7a. David has correctly calculated the two fractions of the amount. His mistake is with finding the whole as he doubled 16 to find the whole but this only gives you $\frac{16}{18}$. The whole should be 36.

8a. Nathaniel is correct because $\frac{6}{9}$ is equivalent to $\frac{2}{3}$.

9a. Ava – 28 flowers; Ivy – 35 flowers; Louis
– 30 flowers. Ivy's bunch is the largest.

Greater Depth

7b. Lilli has correctly found the whole because $18 \div 9 \times 15 = 30$. $\frac{2}{5}$ is incorrect as this would be 12 because $\frac{1}{5} = 6$ (18 ÷ 3). 8b. Erin is incorrect. She could find the

8b. Erin is incorrect. She could find the whole by multiplying 6 by 9 because $\frac{8}{18}$ is equivalent to $\frac{4}{9}$ and 24 ÷ 4 = 6.

9b. Dominic – 48 balloons; Wilf – 39

balloons; Ben – 45 balloons. Dominic's display is the largest.

