Miss Hughes' group – Reasoning and problem solving answers

Bronze

1a. 15

2a. Square, square, triangle. No, she is not correct because every 3rd shape is a triangle.

3a. There would be 18 apples in 3 bowls. (6 x 3 = 18)

1b. 30

2b. Circle, circle, square. Yes, he is correct because every 3rd shape is a square which means that the 7th shape will be a circle.

3b. There would be 24 petals on 3 flowers. (8 x 3 = 24)

Silver

4a. 24

5a. No, he is not correct because only multiples of 3 are triangles. The 11th shape in the pattern will be a circle because 11 is not a multiple of 3.

6a. There would be 11 peaches in 3 bowls. (11 x 3 = 33)

4b. 12

5b. No, she is not correct because every 3rd shape is a circle. 3 x 4 = 12, so the 12th shape would be a circle.

6b. There would be 36 eggs in 3 cartons. (12 x 3 = 36)

Gold

7a. 15

8a. No, she is not correct because only multiples of 3 will be squares. 10 is not a multiple of 3 so it will be a circle. 15 is a multiple of 3 so it will be a square.

9a. There would be 27 tools in 3 toolboxes. (9 x 3 = 27)

7b. 36

8b. No, he is not correct because he needs to count in 3s to know which shapes will be triangles.

9b. There would be 21 books on 3 shelves. (7 x 3 = 21)