Reasoning and Problem Solving
Counting in Powers of 10

Developing

1a. Various answers, for example: 1,729; 2,729; 7,729; 12,729 (any numbers ending in 729)

2a. 13,568

3a. Eddie is correct. If you continued to count in hundreds, the number after 1,905 would be 2,005.

Expected

4a. Various answers, for example: 13,890; 23,890; 133,890; 233,890 (any number ending in 3,890).

5a. 6 packs; 556,155

6a. Fraser is correct. The hundred thousands column is decreasing by 1 each time.

Greater Depth

7a. Various answers, for example: 3,129; 7,129; 83,129; 303,129 (any number ending in 129) Negative number = – 871

8a. 18 boxes; 29,900

9a. Neither are correct. The sequence would go in to negative numbers but the next number would be – 917.

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1b. Various answers, for example: 5,670; 65,670; 105,670 (any number ending in 5,670)

2b. 2,478

3b. Benji is correct. In this sequence, the hundreds column is increasing by 1 each time.

Expected

4b. Various answers, for example: 73,608; 75,608; 39,608; 93,608; 57; 608 (any number ending in 608).

5b. 9 boxes; 55,000

6b. Henry is correct because it is counting backwards in 100s, eventually zero will be part of the sequence.

Greater Depth

7b. Various answers, for example: 899,056; 499,056; 99,056 (any number ending in 99,056) Negative number = – 944

8b. 5 boxes; 52,000

9b. Evie is correct. The sequence is increasing by 100,000 not 10,000 (100^2).