Bronze Answers

1a. b. 44,489
2a. True
3a. b, c, a
4a. b – 28,954

1a. 35,430. Accept representations of numbers between 35,000 and 36,000 using the key and written in descending order.
2a. Megan is not correct because b. 41,382 is greater than a. 41,576. The correct order is b, a, c, d.
3a. Various answers, for example: 57,325;57,334; 57,415; 57,424;57,424

Silver Answers

5a. b. 52,409
6a. True
7a. b, c, a
8a. c – 31,422

4a. 63,260. Accept representations of numbers between 64,000 and 65,000 using the key and written in descending order.
5a. Charlie is not correct because b.79,210 is greater than a.77,375. The correct order is d, a, c, b.
6a. Various answers, for example: 63,525; 63,624; 63,714; 62,814; 62,715; 62,625.

Gold Answers

9a. d. 51,815
10a. False, =
11a. b, a, c.
12a. d – 50,226

7a. 44,420. Accept representations of numbers between 54,000 and 55,000 using the key and written in descending order.
8a. Amelia is not correct because b is greater then the whole of c which is 68,157. The correct order is a, c, b, d.
9a. Various answers, for example: 59,313; 59,043; 58,233; 58,215; 58,035.

Challenge Answers

1. Kevin and Imogen are playing a computer game. They are creating patterns using the different characters below and then converting them into five-digit numbers.

Each character's value is between 0-9 but must follow a rule. They also cannot use the same number more than once per round.

| Multiple of 3 | Less than 5 | Odd number | Even number | Greater than 5 |

Kevin has won all 3 rounds by creating a larger number than Imogen. These are their patterns:

	Kevin's pattern	Imogen's pattern
Round 1		
Round 2		
Round 3		

Explore the different possible numbers both players could have made in each round.
Various answers, for example:
Round 1 – 96,758; 89,746; Round 2 – 89,765; 49,637; Round 3 – 43,896; 34,982.