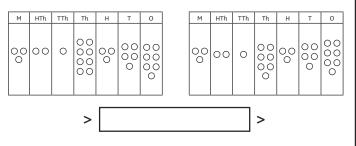**1)** What are the greatest and smallest possible numbers that can be used in these comparisons?

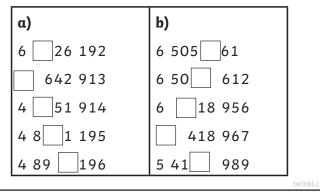| Smallest Possible Number		Greatest Possible Number
	564 572 < ☐ < 565 572	
	1 346 125 > ☐ > 1 344 124	
	9 968 246 < ☐ < 9 978 246	

2) Give **either** the greatest or smallest possible answer that could be used to complete this comparison.

> ☐ >

3) Write a digit in each box so that the numbers are written in order from greatest to smallest.

a)
6 ☐ 26 192
☐ 642 913
4 ☐ 51 914
4 8 ☐ 1 195
4 89 ☐ 196

b)
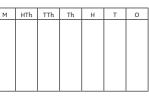6 505 ☐ 61
6 50 ☐ 612
6 ☐ 18 956
☐ 418 967
5 41 ☐ 989

1) Emily says that, in order to complete the empty place value chart with the greatest possible answer, she must use the same number of counters as the completed chart. Is she correct? Explain why.

2) a) Rhys must sort these numbers into groups. Each number can only be sorted once. Can you help him sort as many of the numbers as possible into the correct groups?

- Numbers between 5.5 million and 6.5 million
- Numbers between 550 000 and 650 000

559 600	589 564	5 946 564	6 299 956
6 489 564	6 549 000	5 642 956	599 600
6 501 956	649 560	7 199 000	5 449 000

b) Rhys says that the remaining numbers can all be sorted into the group:
Numbers between 1 000 000 and 8 000 000.

Explain why Rhys's statement is **incorrect**.

c) Use the statement:
'Numbers between _____ and _____ '
to think of a group that he could correctly sort the remaining numbers into instead.

---

1) a) Rhys must sort these numbers into groups. Each number can only be sorted once. Can you help him sort as many of the numbers as possible into the correct groups?

- Numbers between 5.5 million and 6.5 million
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b) Rhys says that the remaining numbers can all be sorted into the group:
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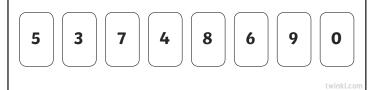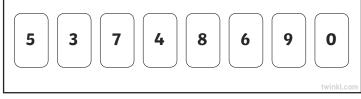Explain why Rhys's statement is **incorrect**.

c) Use the statement:
'Numbers between _____ and _____ '
to think of a group that he could correctly sort the remaining numbers into instead.

---

1) Use the digit cards to make ten different seven digit numbers which are greater than 1 000 000. You can only use a digit card once in each number.

Can you find:
- two numbers with the greatest difference;
- two numbers with the smallest difference;
- numbers with a digit sum that is lower than 30;
- numbers with a digit sum that is greater than 30?

| 5 | 3 | 7 | 4 | 8 | 6 | 9 | 0 |

---

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1)

Smallest Possible Number		Greatest Possible Number
564 573	564 572 < ☐ < 565 572	565 571
1 344 125	1 346 125 > ☐ > 1 344 124	1 346 124
9 968 247	9 968 246 < ☐ < 9 978 246	9 978 245

2) 3 218 356 or 3 217 358

3)

a)	b)
6 426 192	6 505 613
5 642 913	6 505 612
4 951 914	6 418 956
4 891 195	5 418 967
4 890 196	5 417 989

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1) Emily is incorrect. The largest possible answer is 1 262 412, which would require one less counter.

2) a)

Numbers between 5.5 million and 6.5 million	Numbers between 550 000 and 650 000	Numbers between ___ and ___
6 489 564	559 600	_____
6 299 956	599 600	_____
5 946 564	589 564	_____
5 642 956	649 560	_____

b) Rhys is incorrect because, if he uses this statement, the numbers between 5.5 million and 6.5 million would also need to be included in this column – but each number can only be written once.

3) Accept any correct statement, such as numbers greater than 6 500 000.

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1) Anna – 960 000

Ranjit – 910 000

Faheen – 28 800

Eli – 1 010 000

2) Accept ten different values that are greater than 1 000 000.

The greatest difference possible is 6 419 754.

The smallest difference possible is 1.

Other answers will vary depending on which numbers the children create.