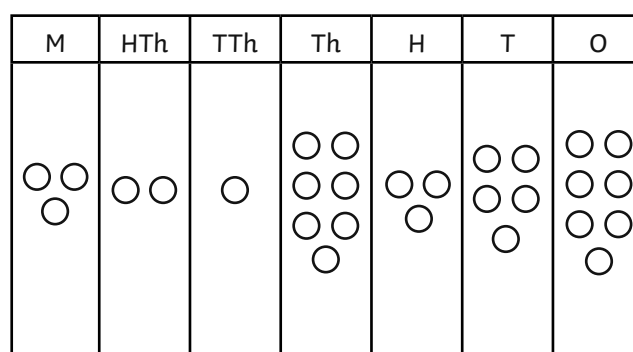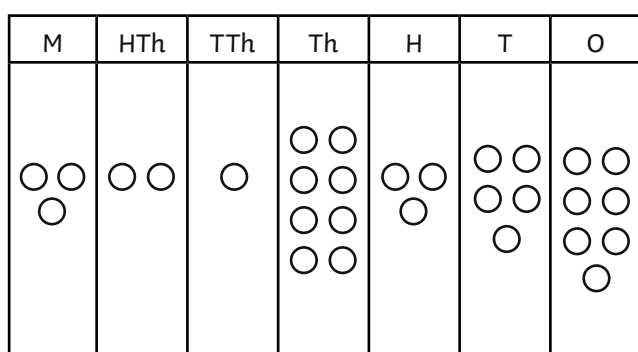**1)** What are the greatest and smallest possible numbers that can be used in these comparisons?

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.

| M	HTh	TTh	Th	H	T	O

M	HTh	TTh	Th	H	T	O

> ☐ >

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

a)	**b)**
6 _26 192	6 505 61_
_ 642 913	6 50_ 612
4 _51 914	6 _18 956
4 8_1 195	_ 418 967
4 89_ 196	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.

_____

_____

M	HTh	TTh	Th	H	T	O

\>

M	HTh	TTh	Th	H	T	O
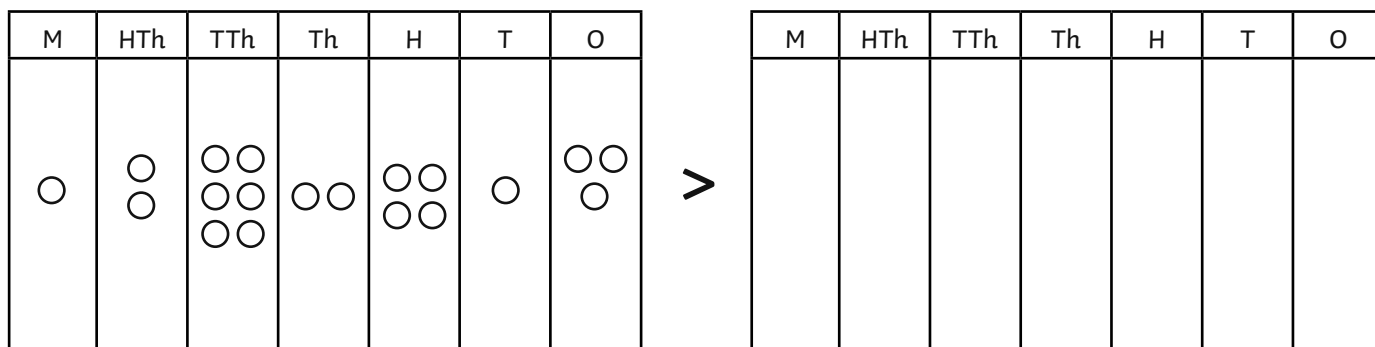
2) **a)** Rhys's must sort these numbers into the table below. Each number can only be used once. Can you help him sort as many of the numbers as possible into the table?

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

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 groups the remaining numbers into the final box with the following statement: Numbers between 1 000 000 and 8 000 000.

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

_____

_____

3) What statement could be used as a heading for the final box?

_____

_____

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1) Each pupil has a number. Can you work out which number each pupil has by using their statements?

Anna says, "My number is exactly halfway between Ranjit's number and Eli's number."

☐

Ranjit says, "My number is one hundred thousand less than Eli's number."

☐

Faheen says, "My number is all of the other children's numbers added together and divided by one hundred."

☐

Eli says, "My number is ten thousand more than one million."

☐

2) Use the digit cards to make ten different 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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