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Compare and Order Numbers

Student's Book p.12

What You Will Learn:

- Compare numbers greater than 1000 using symbols '<', '>' and '='.
- Order numbers greater than 1000.

Look Back

1	2	3	4	5	6	7	8	9
10	20	30	40	50	60	70	80	90
100	200	300	400	500	600	700	800	900
1 000	2 000	3 000	4 000	5 000	6 000	7 000	8 000	9 000
10 000	20 000	30 000	40 000	50 000	60 000	70 000	80 000	90 000
100 000	200 000	300 000	400 000	500 000	600 000	700 000	800 000	900 000

As we go down the rows, the digit zero is added to the right of the number, so the values of the digits increase, e.g. 8 becomes 80 in the next row.

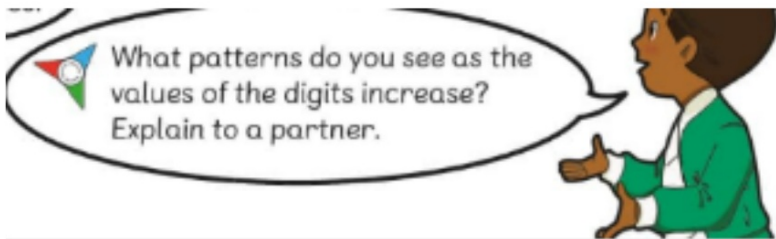


The digits here look like trees!



What patterns do you see as the values of the digits increase? Explain to a partner.





There are patterns of zeros representing the 10s, 100s, 1000s, 10 000s and 100 000s.

The place value is the smallest at the top row and becomes greater further down the columns.

The non-zero digits of the numbers in each row have the same place value.

Thinking Cap

What are the greatest and smallest numbers you can form? Can you make the number 0? Explain.



The greatest number is 999 999 and the smallest number is 1.

> means "greater than". < means "less than".

Student's Book p.13

Which distance is the longest? Complete the table.

10 000 000s	1 000 000s	100 000s	10 000s	1000s	100s	10s	1s	
			4	0	0	7	5	▶ shortest
		4	3	9	2	6	4	
	4	3	7	9	0	0	0	▶ longest

> stands for greater than.
< stands for less than.



The distance around Jupiter > The distance around Earth

The distance around Jupiter < The distance around Sun

Order the distances from the shortest to the longest.

40,075, 439,264, 4,379,000

Let's Practise



- 1 Order these numbers from smallest to largest.

9001, 90 201, 995, 6421, 21 648, 999 021, 3 973 000

Explain to your partner how you did it by showing at least two ways you used to find your answer.

995 / 6,421 / 9,001 / 21,648 / 90,201 / 999,021 / 3,973,000

- 2 Complete the statements with the symbols $<$ or $>$.

a 452 932 $>$ 425 309

b 8 343 653 $<$ 8 434 782

Can you write more statements using the symbols?



group work activity



3 Carina has seven number cards as shown.



She uses all the cards to form 7-digit numbers.

Each card can only be used once.

a What is the smallest number she forms? 1,023,456

b What is the greatest even number she forms? 6,543,210

Give an example of a number she cannot make.

Spot a pattern. What is the same and different between them?