

Key concepts and questions

How do you know which number is greater?

Use place value grids to identify digit value in numbers up to a million. Compare the greatest value first. For example, 45,066 has 4 ten thousands and 17,906 only 1 therefore the first number is greater.

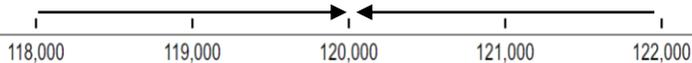
TTh	Th	H	T	O
4	5	0	6	6

TTh	Th	H	T	O
1	7	9	0	6

Can multiple numbers round to the same number?

1 to 4 round down, 5-9 round up.

So, multiple numbers do round to the same number. e.g. 122,000 and 118,000 round to 120,000 when rounded to the nearest ten thousand.



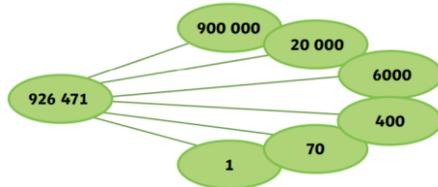
Key Vocabulary

place value	digit	partition	compare						
greater than	less than	order	ascending						
descending	hundred thousands	thousands	hundreds						
tens	ones	zero	negative numbers						
round	Nearest 10, 100, 1 000, 10 000 and 100 000	Roman numerals	I	V	X	L	C	D	M
			1	5	10	50	100	500	1,000

Representations

Part Whole Model:

Helps with partitioning numbers in multiple ways.



926 471

Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
9	2	6	4	7	1

nine hundred and twenty-six thousand, four hundred and seventy-one

Place Value Grid

This will help to organise numbers so they can be ordered and compared.

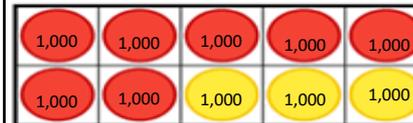
Number lines

Help to round, order and compare numbers within 1,000,000 and count in negative numbers.



Making connections

Number bonds



$$30 + 70 = 100 \text{ so } 230 + 70 = 300$$

$$300 + 700 = 1,000$$

$$3,000 + 7,000 = 10,000$$

$$30,000 + 70,000 = 100,000 \text{ so } 230,000 + 70,000 = 300,000$$

Counting in powers of 10.

If you can count in 10s, you can also count in 100s, 1 000s, 10 000s and 100 000s



Bridging

Counting can cross a multiple of 10, 100, 1 000, 10 000 or 100 000. For example, if counting in 1,000s and the 1,000s digit is a 9, you bridge into the next multiple of 10,000.

TTh	Th	H	T	O
1	9	8	0	6

 \longrightarrow

TTh	Th	H	T	O
2	0	8	0	6