

Key concepts and questions

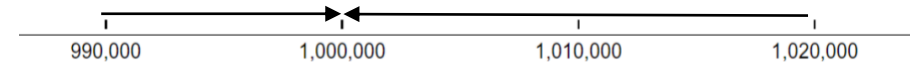
How do you know which number is greater?

Use place value grids to identify digit value. Compare the greatest value first. For example, 4,085,066 has 4 millions and 1,096,754 only 1 therefore the first number is greater.

M	HTh	TTh	Th	H	T	O	M	HTh	TTh	Th	H	T	O
4	0	8	5	0	6	6	1	0	9	6	7	5	4

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. 1,020,000 and 990,000 round to one million when rounded to the nearest million.

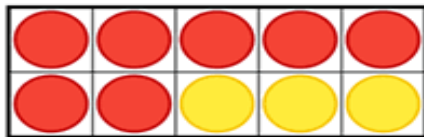


Key Vocabulary

place value	digit	partition	compare
order	descending	ascending	ten millions
millions	hundred thousands	thousands	hundreds
tens	ones	zero	negative numbers
round	Nearest 10, 100, 1 000, 10 000 and 100 000		

Making connections

Number bonds



- $3+7=10$
- $30+70=100$
- $300+700=1,000$
- $3,000+7,000=10,000$
- $30,000+70,000=100,000$
- $300,000+700,000=1,000,000$

Number bonds help with efficient methods
e.g. $130+70=200$ $2,300+700=3,000$

Bridging

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

M	HTh	TTh	Th	H	T	O	M	HTh	TTh	Th	H	T	O
4	9	7	5	8	1	6	5	0	7	5	8	1	6

Representations

Part Whole Model:

Helps with partitioning numbers in multiple ways.



Place Value Grid

Helps organise numbers so they can be ordered and compared.

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
3	9	2	6	4	7	1

Number lines

Help to round, order and compare numbers and use negative numbers.

