

Number and Place Value

Knowledge Organiser

Key Vocabulary	Compare and Order						
ten million	equals $26 + 38 = 8 \times 8$ Both calculations have the value 64.	greater than $223\,873 > 98\,256$ The number on the left has 2 hundred thousands and the number on the right has 0 hundred thousands.	less than $901\,198 < 1\,091\,098$ The number on the right has 1 million and the number on the left has 0 millions.				
millions							
thousands							
hundreds							
tens							
ones							
zero							
place value	smallest	81 782	127 352	127 835	137 019	200 002	greatest
greater than	Negative Numbers			Round Any Number			
less than	$3 - 8 = -5$ -5 -3 $-6 + 11 = 5$ +6 +5			Rounding to the nearest 1000 2000 ← 2499 2500 → 3000 round down round up Rounding to the nearest 10 000 20000 ← 24999 25000 → 30000 round down round up Rounding to the nearest 100 000 200 000 ← 24 9999 250 000 → 300 000 round down round up Rounding to the nearest 1 000 000 2 000 000 ← 2 499 999 2 500 000 → 3 000 000 round down round up			
order	The temperature drops by 2°C. The new temperature is -4°C						
round							
rounded							
negative number							
partition							
digit							
interval							
sequence							
linear sequence							
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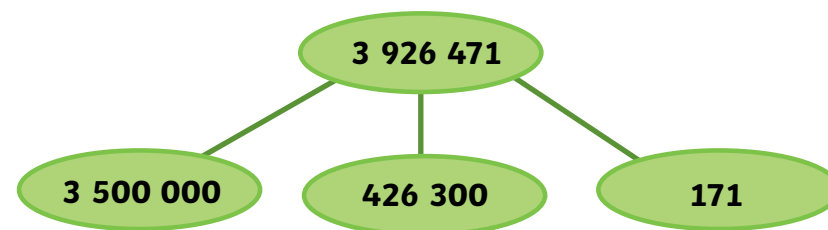
Numbers to Ten Million

3 926 471

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

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

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Powers of 10

The Gattegno chart shows that 400,000 is one hundred times bigger than 4,000.

One-thousandth of 4,000 is 4.

1,000,000	2,000,000	3,000,000	4,000,000	5,000,000	6,000,000	7,000,000	8,000,000	9,000,000
100,000	200,000	300,000	400,000	500,000	600,000	700,000	800,000	900,000
10,000	20,000	30,000	40,000	50,000	60,000	70,000	80,000	90,000
1000	2000	3000	4000	5000	6000	7000	8000	9000
100	200	300	400	500	600	700	700	900
10	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7	8	9