Templars Primary School Knowledge Organiser — Year 6 Place Value

Key Vocabulary

- order
- compare
- place value
- round
- negative numbers
- intervals
- ten million
- context
- greater than
- less than
- digit
- sequence

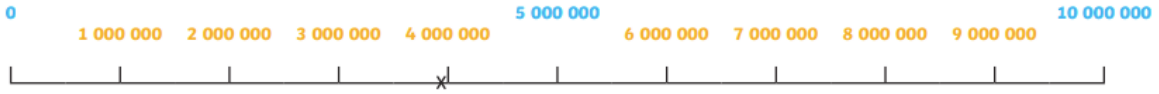
Numbers to ten million

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

3 926 471	
3 926 000	471



Compare and order

8137209	=	8137209
1036267	>	256371
510736	<	3928371

smallest — 81 782 — 127 352 — 127 835 — 137 019 — 200 002 — greatest

Round any number within ten million

Rounding to the nearest 1000

2000 ← 2499	2500 → 3000
round down	round up

Rounding to the nearest 10 000

20 000 ← 24 999	25 000 → 30 000
round down	round up

Rounding to the nearest 100 000

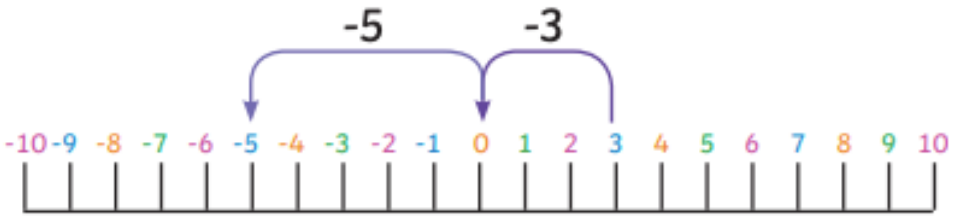
200 000 ← 249 999	250 000 → 300 000
round down	round up

Rounding to the nearest 1 000 000

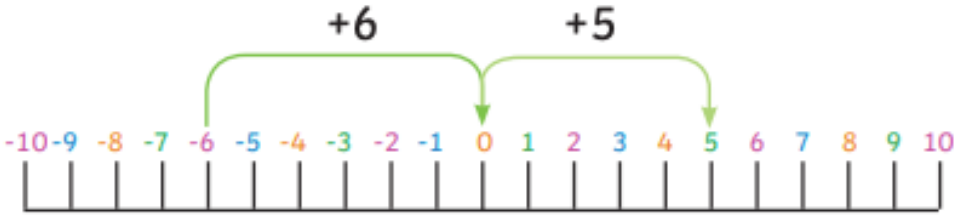
2 000 000 ← 2 499 999	2 500 000 → 3 000 000
round down	round up

Negative numbers

3 – 8 = -5



-6 + 11 = 5



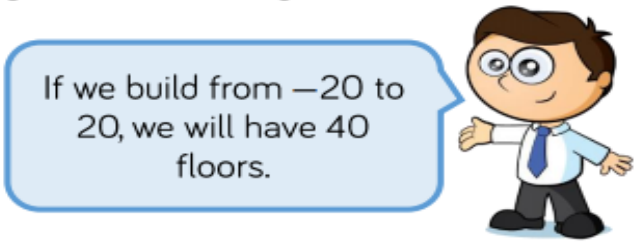
Use sandcastles (+1) and holes (–1) to calculate.
Here is an example.

$-2 + 5 =$ 

Number and practical problems

Negative number problem

A company decided to build offices over ground and underground.



Do you agree? Explain why.

No, there would be 41 floors because you need to count floor 0

Rounding problem

Whitney rounded 2,215,678 to the nearest million and wrote 2,215,000

Can you explain to Whitney what mistake she has made?

There should be no non-zero digits in the columns after the millions column.

When solving word problems, read it through once, then underline key words to help you choose the right operation to use.