

# The Journey – Place Value Y6

Discovery

How many different ways can you partition 5,672?

## Maths journey

Starting from the discovery question - leading up to an investigation.

## Vocabulary

millions, thousands, hundreds, tens, ones, base 10, powers of 10, place value, numeral, integer, figures, part-whole models, calculation, representation, digits, interval, column, exchange, more than, less than, smallest, greatest, ascending, descending, increase, decrease, order, compare, round to the nearest, negative, beyond zero.

- Recap Numbers to 10,000
- Recap Numbers to 100,000
- Recap Numbers to a million
- Numbers to 10 million
- Compare and order any numbers
- Recap Round numbers to 10, 100 and 1,000
- Round any number
- Negative numbers

## Reasoning and Problem solving

M	HTh	TTh	Th	H	T	O
	●●		●●	●●●●	●●	

?

15,987   15,813   15,101   16,101

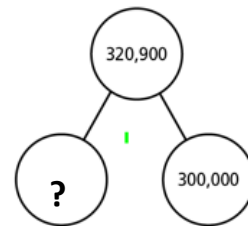
Tommy says, "My number rounds to 16,000 to the nearest 1,000"

Alex says, "My number has one hundred."

Jack says, "My number is 15,990 when rounded to the nearest 10"

Dora says, "My number is 15,000 when rounded to the nearest 1,000"

Can you work out which child has which card?



A company decided to build offices over ground and underground.

If we build from -20 to 20, we will have 40 floors.



Do you agree? Explain why.

Put a digit in the missing spaces to make the statement correct.

$$4,62 \_ ,645 < 4,623,64 \_$$

Is there more than one option? Can you find them all?

## Final Investigations

Partition 12,702,543 in three ways, four ways, etc.  
Letitia's Hot Air Balloon (negative numbers).