



THIRD SPACE  
LEARNING



# HELLO!

Today we are going to learn about  
rounding any number up to 1 000 000



## Warm up for rounding any numbers up to 1 000 000

1. Count on in 100 000s from 100 000 to 1 000 000.
2. Say any three multiples of 10 000.
3. Say any three multiples of 100 000.
4. What is the missing number on this number line?



5. How many 10 000s are there in 424 347?
6. How many 100 000s are there in 424 347?






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# Rounding any number up to 1 000 000



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**In this session, we are going to learn:**

-  to round any number up to 1000 000 to the nearest 10 000
-  to round any number up to 1 000 000 to the nearest 100 000
-  to round numbers in different contexts, such as the population of towns

You are learning to round any number up to 1 000 000

## Rounding numbers to the nearest 10 000 using number lines

Read these numbers out aloud.

How do you round them to the nearest 10 000?

What does  
'nearest 10 000'  
mean?

28 234

344 345

625 312



To help you round them, you can draw number lines.



Write the multiples of 10 000 that the numbers lie between.



## Rounding numbers to the nearest 10 000 using number lines

28 234

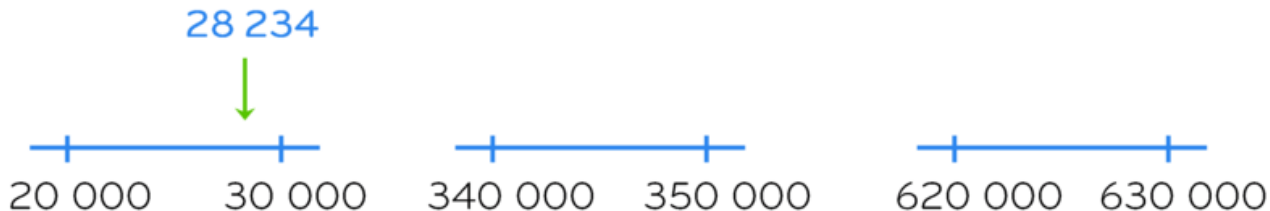
344 345

625 312

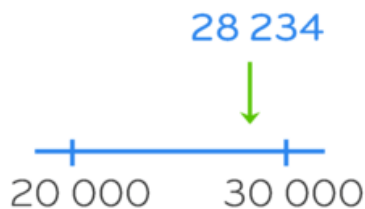
Think...  
Which number would be halfway on the number line?  
Which multiple of 10 000 is the number nearest to?



Mark the numbers on your number line with an arrow.



## Rounding numbers to the nearest 10 000 using number lines



nearest to 30 000

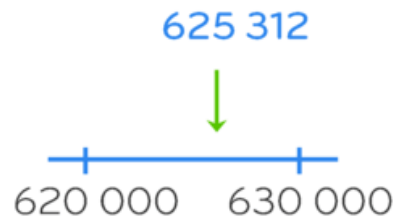
28 234 rounded to the nearest 10 000 is

30 000



nearest to

344 345 rounded to the nearest 10 000 is



nearest to

625 312 rounded to the nearest 10 000 is

# Rounding numbers to the nearest 10 000 by looking at the 1000s

Which digit is in the 1000s column?

46 215

813 792

605 234

10 000s	1000s	100s	10s	1s
4	6	2	1	5

Check by  
thinking of the  
numbers on a  
number line

If the 1000s are less than 5000, round **down** to the nearest multiple of 10 000.

If the 1000s are 5000 or more, round **up** to the nearest multiple of 10 000.

46 215 rounds

up/down

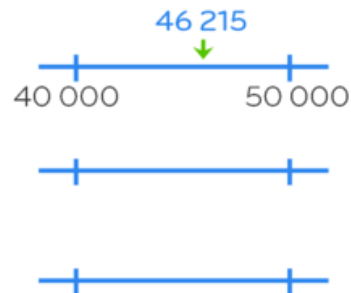
to

813 792 rounds

to

605 234 rounds

to



# Rounding numbers to the nearest 100 000 by looking at the 10 000s

Which digit is in the 10 000s column?

123 765

391 046

750 000

100 000s	10 000s	1000s	100s	10s	1s
1	2	3	7	6	5



If the 10 000s are less than 50 000, round **down** to the nearest multiple of 100 000.

If the 10 000s are 50 000 or more, round **up** to the nearest multiple of 100 000.

123 765 rounds

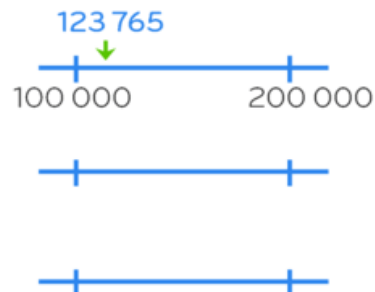
to

391 046 rounds

to

750 000 rounds

to





## Rounding any number up to 1 000 000 in a context

- Rounding makes it easier to describe and understand very large numbers.
- Working with simpler, rounded numbers makes calculations easier.

Here are some examples:

- Population numbers of towns and countries
- Number of album downloads sold by a band at number 1 in the charts
- Kilometres to the moon.
  
- Can you think of another example?

## Rounding any number up to 1 000 000 in a context

The population of a city at 9am on Monday 6th June 2015 is 365 342.

100 000s	10 000s	1000s	100s	10s	1s
3	6	5	3	4	2

Think...Which multiple of 1000 is the population number nearest to?

Round the population to the nearest 1000.

365 342 rounds

to

to the nearest 1000.

The population of the city is

to the nearest 1000.

## Practice time

1. Round these numbers to the nearest 10 000.  
Use a number line or look at the 1000s.

a) 78 120

b) 172 774

c) 985 000

2. Round these numbers to the nearest 100 000.  
Use a number line or look at the 10 000s.

a) 812 342

b) 197 123

c) 455 424

## Practice time

3. The population of a city is 350 058. What is this to the nearest 100 000?



4. The number of births in the UK in 2013 was reported in a newspaper to be 820 000 to the nearest 10 000. Give five possible numbers for the exact number of births in the UK in 2013.

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# Rounding any number up to 1 000 000

What did you feel most confident with  
today?

