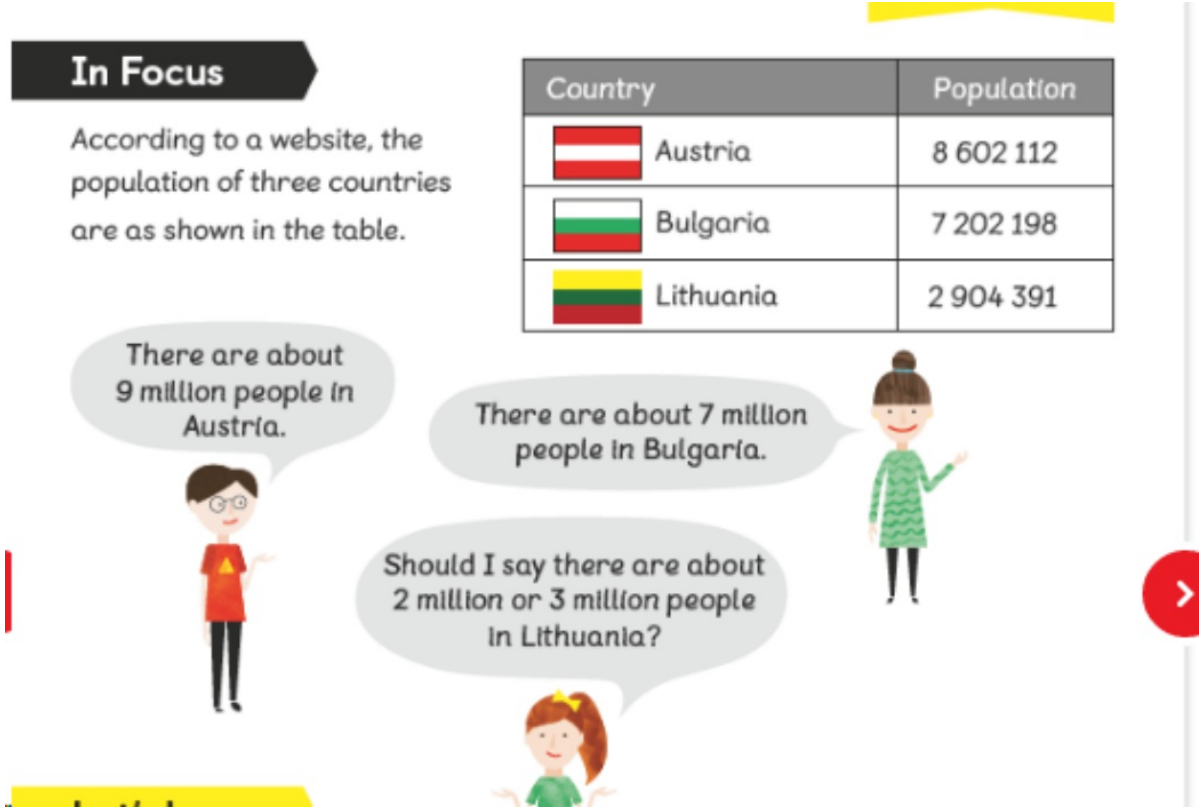
15/09/20

WALT round numbers up to 10 000 000 to the nearest million, hundred thousand and ten thousand.

In Focus

According to a website, the population of three countries are as shown in the table.

Country	Population
Austria	8 602 112
Bulgaria	7 202 198
Lithuania	2 904 391



Challenge- Prove it.

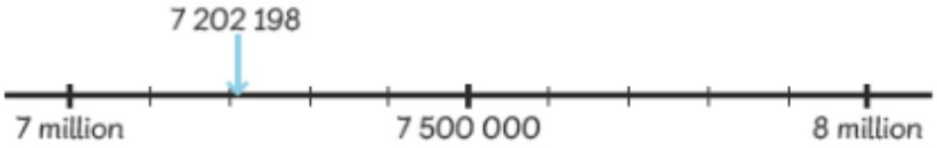
Wales has a population of 3 195 569. Mr Reid says that this is about 4 million people, as most of the digits are above 5.

Is he correct?
Prove it by giving three more examples.

Use a number line to help!

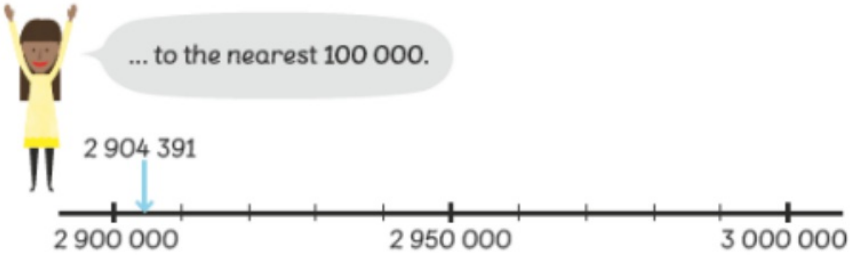
Let's Learn

1 Round 7 202 198 to the nearest million.



7 202 198 is closer to 7 million than to 8 million.
7 202 198 ≈ 7 million

The population of the UK is 67 957 679. How could we round this to the nearest 10,000?



2 904 391 is closer to 2 900 000 than to 3 000 000.
2 904 391 ≈ 2 900 000 (to the nearest 100 000)

Guided Practice

1 Round each number to the nearest million and to the nearest 10 000.

Country	Population	to the nearest million	to the nearest 10 000
Singapore	5 469 700		
Slovakia	5 421 349		
Kyrgyzstan	5 935 400		

Challenge- Prove it.

Miss Yapp says that if you are rounding to the nearest million number, it's easy because you just need to look in the millions column. She says if you're rounding to the nearest 10 000, you just look at that column.

Is she correct?

Prove it using two of your own examples.

Worksheet 6: P9-10

Worksheet 6

Rounding Numbers

1 The estimated populations of some states in Australia are shown below.

Round the population of these Australian states to the nearest 100 000 and to the nearest 1 000 000.

State	Population	Round to the nearest 100 000	Round to the nearest 1 000 000
New South Wales	7 565 500		
Victoria			
Queensland			
South Australia			
Western Australia			

2 Complete the table.

(a)

Number	Round to the nearest 1 000 000
2 058 968	
3 745 662	
4 136 427	
4 807 596	
5 564 272	

Challenge- Prove it

Miss Hart wants to buy a car for £63 450, a house for £789 234 and a yacht for £7 348 965.

She needs to estimate how much she will be spending. She thinks she has to use a calculator.

Is she correct?

Prove it by showing how she might do this.

Worksheet 6

Rounding Numbers

1 The estimated populations of some states in Australia are shown below.

Round the population of these Australian states to the nearest 100 000 and to the nearest 1 000 000.

State	Population	Round to the nearest 100 000	Round to the nearest 1 000 000
New South Wales	7 565 500	7 600 000	8 000 000
Victoria	5 886 400	5 900 000	6 000 000
Queensland	4 750 500	4 800 000	5 000 000
South Australia	1 691 500	1 700 000	2 000 000
Western Australia	2 581 300	2 600 000	3 000 000

2 Complete the table.

(a)

Number	Round to the nearest 1 000 000
2 058 968	2 000 000
3 745 662	4 000 000
4 136 427	4 000 000
4 807 596	5 000 000
5 564 272	6 000 000

(b) Which two numbers are 4 000 000 when rounded to the nearest 1 000 000?

3 745 662 and 4 136 427

3 A number is 6 200 000, rounded to the nearest 100 000.

(a) What is the greatest possible value of the original number?

6 249 999

(b) What is the smallest possible value of the original number?

6 150 000