

Rounding rap if you need reminding how to round: <https://www.youtube.com/watch?v=3qfU6JQG15I>

Must – Year 3 and 4 area of learning.


Please complete the fluency and reasoning and problem solving questions. These focus on rounding within 10, 100 and 1000.

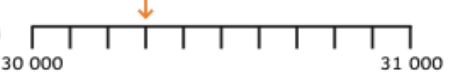
Fluency:

R&PS:

Round to the Nearest 10, 100 or 1000

1) Complete the sentences about the number lines.


a) 
 _____ rounded to the nearest 1000 is _____.

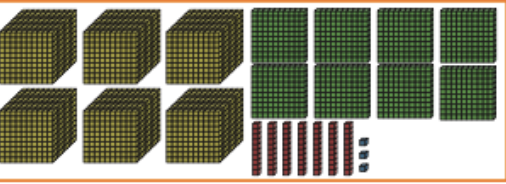
b) 
 _____ rounded to the nearest 1000 is _____.

2) Complete the table.


	Rounded to the Nearest 10	Rounded to the Nearest 100	Rounded to the Nearest 1000
6537			
38 765			

3) Round each of the numbers represented to the nearest 100.

a) 


b) 

c) four thousand, five hundred and thirty-five




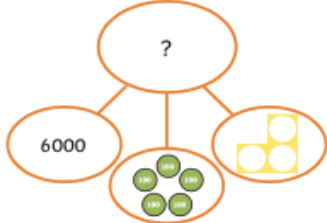
Round to the Nearest 10, 100 or 1000

1) Explain the mistake Zeke has made when rounding.

 38 435 rounded to the nearest 100 is 38 035.

2) Is Elena correct? Explain your reasoning.


 The whole number rounded to the nearest 1000 is 6000.





3) Is this statement true or false? Prove it.

When rounding to the nearest 10, if a number is at the midpoint between two consecutive multiples of 10, it will be rounded to the previous multiple.

4) Are Jia and Joseph correct? Explain your answer.

 6500 and 7500 rounded to the nearest 1000 are both 7000 because they are an equal distance from 7000.

 When I round forty-three thousand, nine hundred and ninety-one to the nearest 10 000, I get the same answer as when I round to the nearest 1000.



Should – Year 5 area of learning

Please complete the fluency and reasoning and problem solving questions. These focus on rounding within 10,000, 100,000 and 1,000,000.

Fluency:

1 Complete the table.

	Rounded to the Nearest 10 000	Rounded to the Nearest 1000	Rounded to the Nearest 100	Rounded to the Nearest 10
12 305				
67 481				

2 A guitarist's first gig sold 17 623 tickets. Find how many tickets were sold when rounded to the nearest 10 000, 1000, 100 and 10.



3 Use the information in the table to answer the questions.

Island	Population
Saint Lucia	180 251
São Tomé and Príncipe	231 856
Fiji	936 375

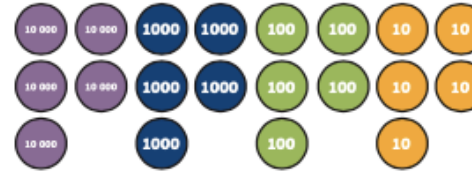
a) What is the population of Saint Lucia when rounded to the nearest 10 000?

b) What is the population of Fiji when rounded to the nearest 1000?

c) Which islands have a population that can be rounded to 200 000 when rounded to the nearest 100 000?

R&PS:

1)



This number rounded to the nearest 10 000 is 50 000.



Is Joseph correct? Explain why.

2) This table shows each number rounded to the nearest 10 000.

	90 000	80 000	70 000
92 292	✓		
77 900		✓	
85 486		✓	
66 459			✓
78 794		✓	
73 653		✓	

How many errors can you spot? Explain them.

3) Is Jia's sentence correct? Explain why.

562 649 is 560 000 when rounded to the nearest 1000.



4) Is Emily's statement correct? Prove it.



799 995 gives the same answer when rounded to the nearest 1000, 10 000 and 100 000.



Could:

Below are the answers for the must and should. Mark your homework. This isn't for you to cheat but for you to go over any errors in your work. If you get something wrong, this means you need to revise this type of question which will help you in the future when you're asked these types of questions again. The top half are the answers for the fluency and the bottom half is for the R&PS.

Must answers:

1)

a) 55 700 rounded to the nearest 1000 is 56 000.

b) 30 300 rounded to the nearest 1000 is 30 000.

2)

	Rounded to the Nearest 10	Rounded to the Nearest 100	Rounded to the Nearest 1000
6537	6540	6500	7000
38 765	38 770	38 800	39 000

3)

a) 22 200

b) 6900

c) 4500



1) Zeke has incorrectly changed the digit in the hundreds column to zero when it should remain as 4. Instead, he needed to change the digits in the tens and ones columns to zeros instead. 38 435 rounded to the nearest 100 is 38 400.

2) Elena's statement is incorrect because the number represented is 6503 and 6503 rounded to the nearest 1000 is 7000.

3) The statement is false because if a number is at the midpoint between two consecutive multiples of 10, the ones digit will be 5, meaning it should be rounded to the next multiple of 10.

4) Jia's statement is incorrect because 7500 rounded to the nearest 1000 is 8000. This is because when a number is exactly halfway between two successive multiples, it is rounded to the greater multiple.

Joseph is incorrect because 43 991 rounded to the nearest 10 000 is 40 000 but when rounded to the nearest 1000, it is 44 000.



Should answers:

1

	Rounded to the Nearest 10 000	Rounded to the Nearest 1000	Rounded to the Nearest 100	Rounded to the Nearest 10
12 305	10 000	12 000	12 300	12 310
67 481	70 000	67 000	67 500	67 480

2

20 000 when rounded to the nearest 10 000

18 000 when rounded to the nearest 1000

17 600 when rounded to the nearest 100

17 620 when rounded to the nearest 10

3

a) 180 000

b) 936 000

c) Saint Lucia and São Tomé and Príncipe

1) Joseph is incorrect because the number represented is 55 550. This is 60 000, when rounded to the nearest 10 000.

2) There are two errors in this table.

73 653 is 70 000 when rounded to the nearest multiple of 10 000, not 80 000.

85 486 is 90 000 when rounded to the nearest multiple of 10 000, not 80 000.

3) Jia's sentence is incorrect. She has rounded 562 649 to the nearest 10 000, not the nearest 1000. When rounded to the nearest 1000, 562 649 is 563 000.

4) Emily's statement is correct. When rounded to the nearest 1000, 10 000 and 100 000, 799 995 is 800 000.

