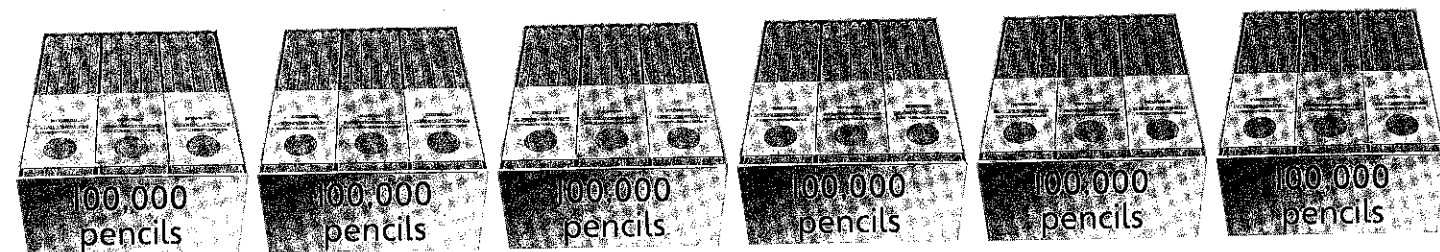


100,000s, 10,000s, 1,000s, 100s, 10s and 1s 1

1 How many pencils are there in total?

Write your answer in numerals and words.

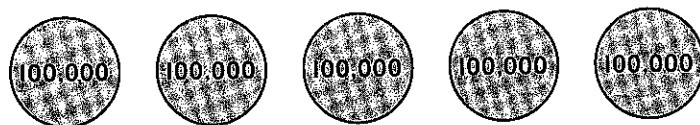


In numerals: there are pencils in total.

In words: there are _____ pencils in total.

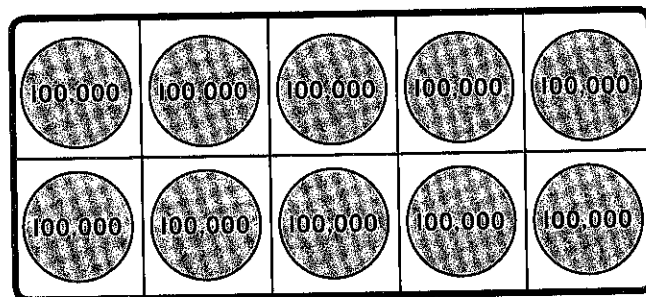
2 What numbers are represented here?

Write your answers in numerals and words.



a) In numerals:

In words: _____



b) In numerals:

In words: _____

3 Bella is watching videos on her computer.

For each video, write the number of views in words.

a) In words: _____

b) In words: _____



4 Write each of the following numbers in numerals.

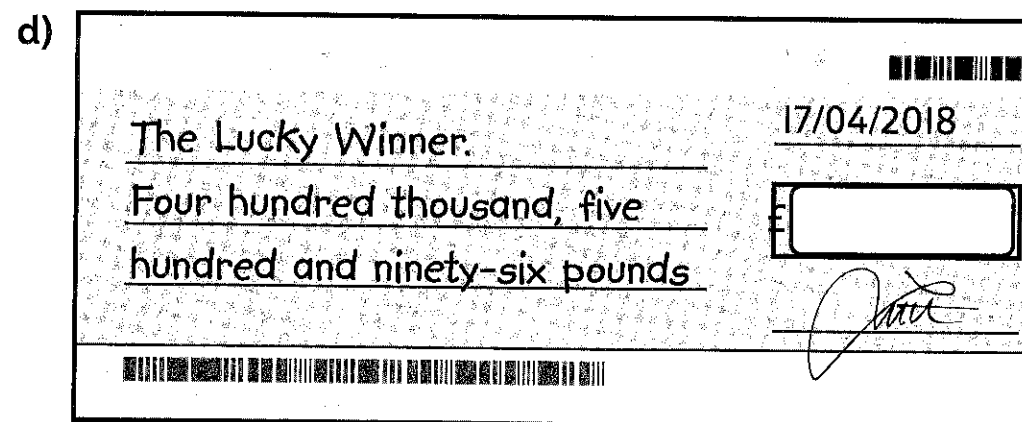
a) Three hundred and twenty-nine thousand and one hundred.

In numerals:

b) Thirty-seven thousand, five hundred and eighty-one.

In numerals:

c) Six hundred thousand and forty. In numerals:



In numerals:

100,000s, 10,000s, 1,000s, 100s, 10s and 1s

5 What does the 4 represent in each of these numbers?



- 314,912 _____
- 240 _____
- 500,240 _____
- 77,314 _____
- Four hundred and eight thousand, three hundred and one.

6 Olivia makes this number.

HTh	TTh	Th	H	T	O

CHALLENGE

Olivia moves two counters. Her number now has 1 thousand.

What could the new number be? Find five possible answers.

, , , ,

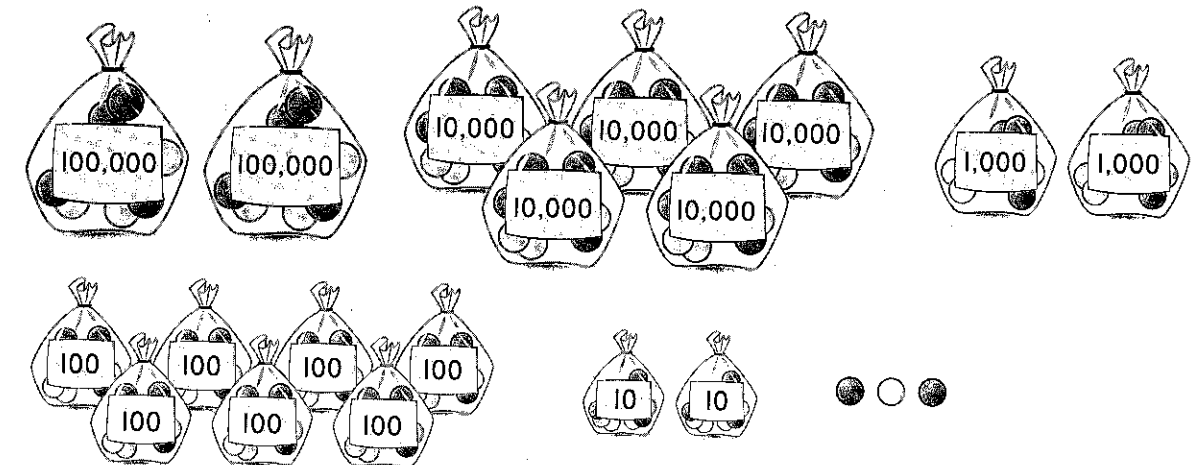
Reflect

Write a 6-digit number.

Swap the number with a friend.

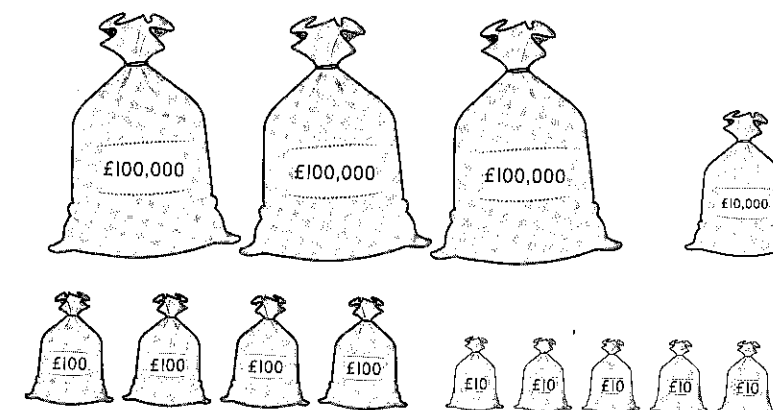
Say the number aloud, write it in words and show it on a place value grid.

1 How many counters are there?



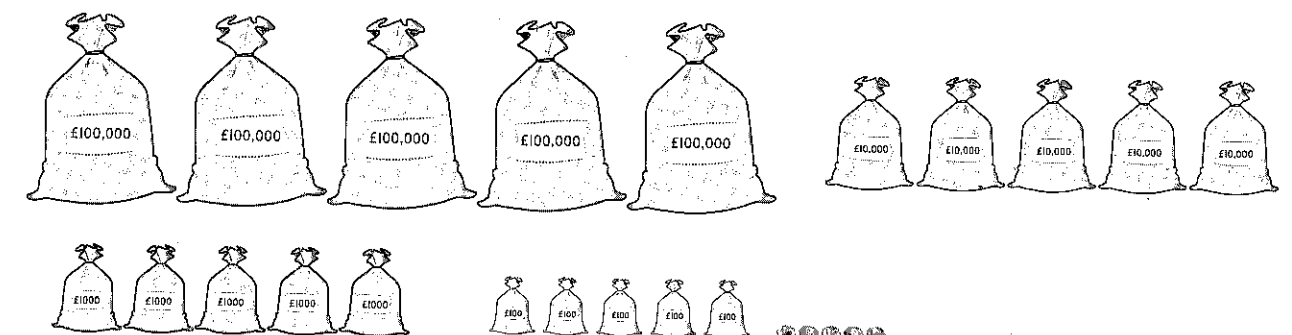
There are counters.

2 a) How much money is shown?



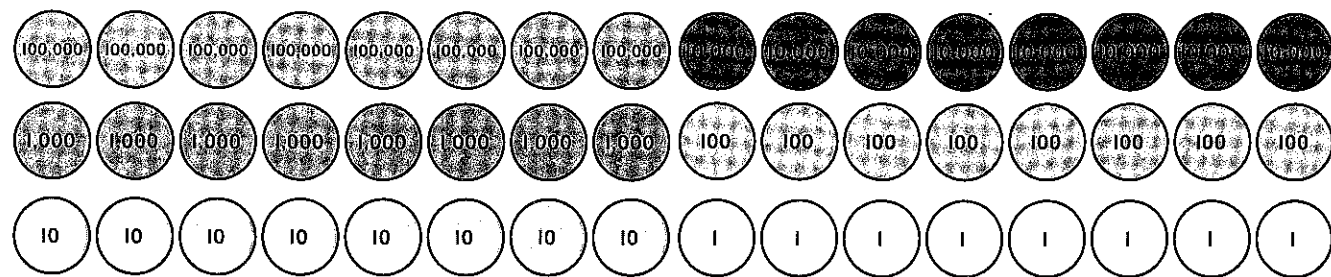
There is £ shown.

b) Circle all of the sacks you need to make £215,004.

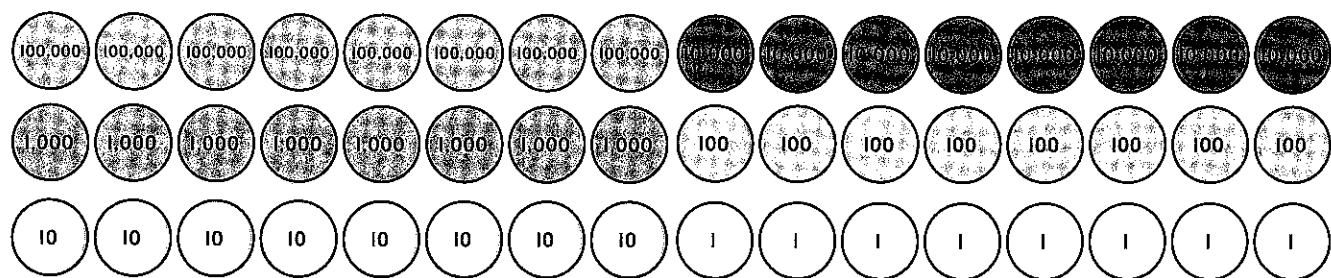


3 Circle the correct counters to make the following numbers.

a) 176,003



b) 45,140



4 Complete all of the partitions and numbers below.

a) $218,492 = 200,000 + \square 0,000 + \square ,000 + \square 00 + \square 0 + \square$

b) $710,388 = \square 00,000 + \square + \square + \square + \square$

c) $39,448 = \square + \square + \square + \square + \square$

d) $200,000 + 70,000 + 9,000 + 700 + 30 + 1 = \square$

e) $500,000 + 2,000 + 900 + 80 + 1 = \square$

f) $7,000 + 70 + 3 = \square$

g) $600,000 + 50,000 + 100 + 3 = \square$

5 What numbers are partitioned?

a) 5 hundred thousands, 4 ten thousands, 9 thousands, 5 hundreds, 2 tens and 7 ones

b) 7 ten thousands, 5 hundreds and 6 ones

c) 9 hundred thousands, 1 ten thousand, 2 tens and 8 ones

6 Complete all of the missing numbers below.

a) $200 + 500,000 + 6,000 + 30,000 + 10 + 5 = \square$

b) $700,000 + 35,000 = \square$

c) $900 + 10,000 + 70 + 6 = \square$

d) $375,910 = 300,000 + 60,000 + 800 + 10 + \square$

e) $709,257 = 700,000 + 7,000 + 100 + 20 + 5 + \square$



Reflect

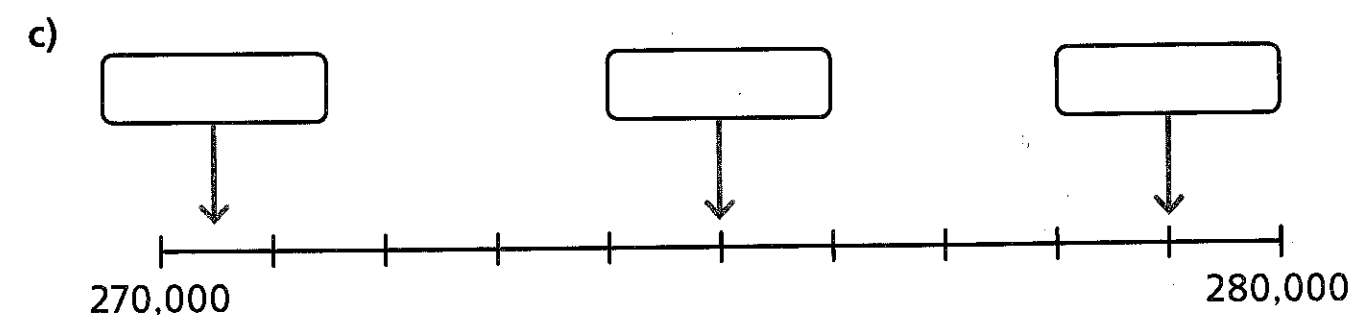
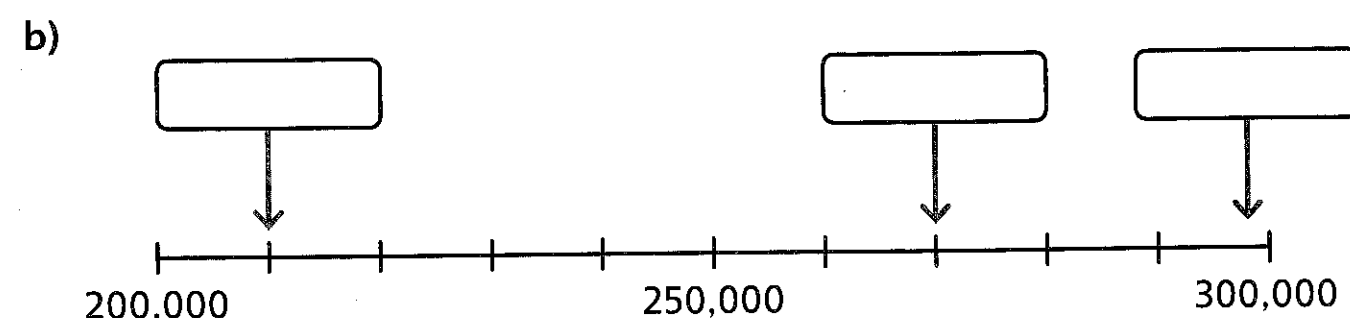
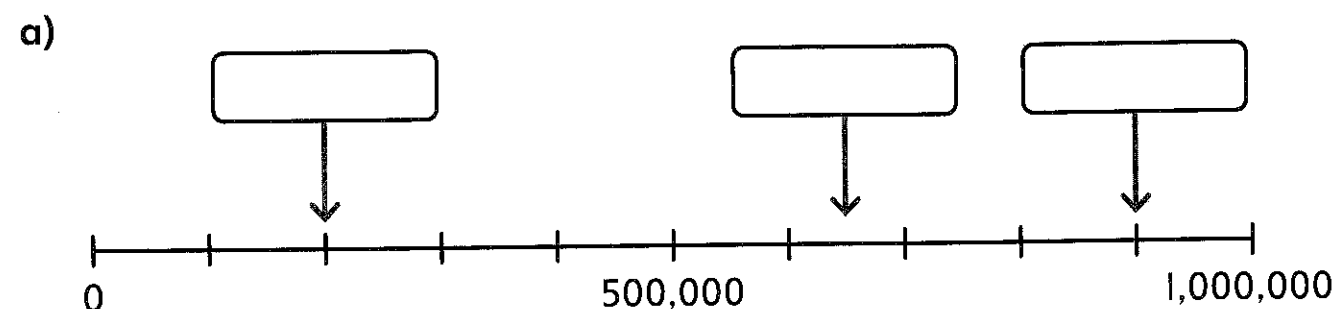
Show how you can partition the number 452,093.

How many different ways can you partition this number?

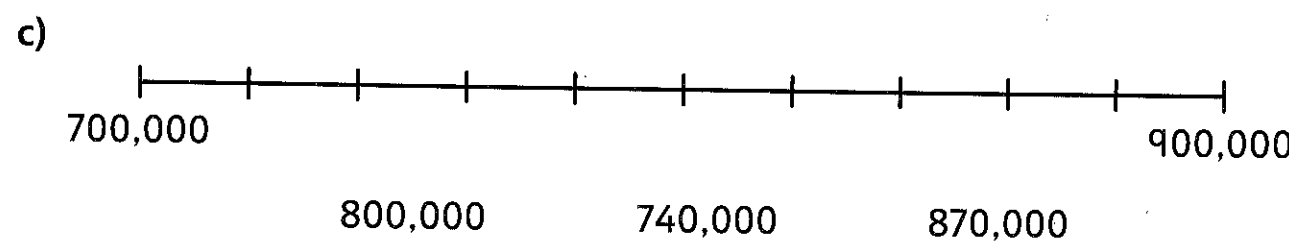
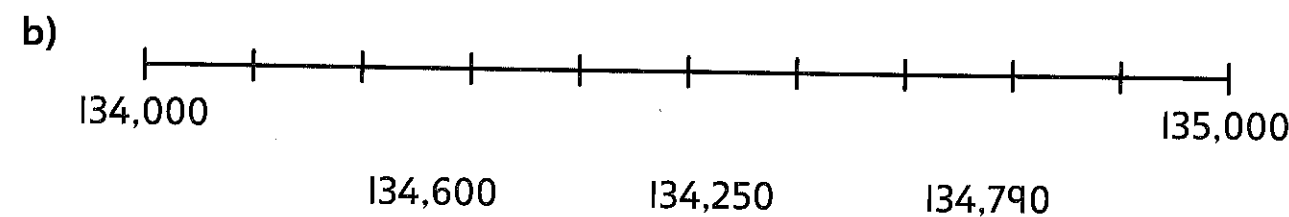
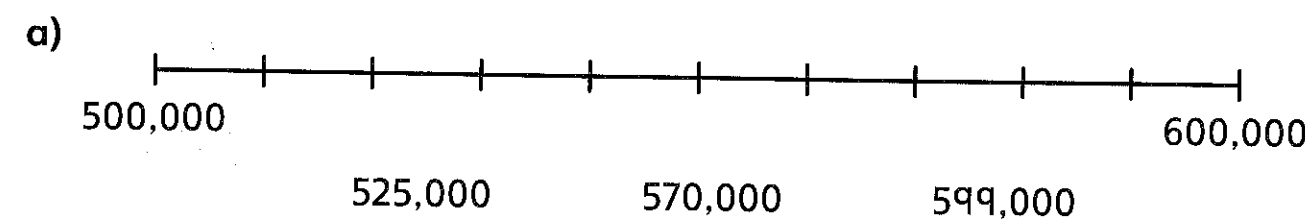


Number line to 1,000,000

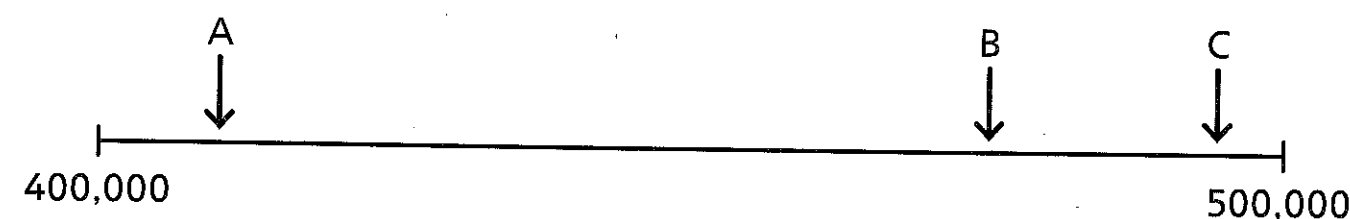
1 What number is each of the arrows pointing to?



2 Draw an arrow from each number to its correct position on the number line.



3 Estimate the following values for points A, B and C.



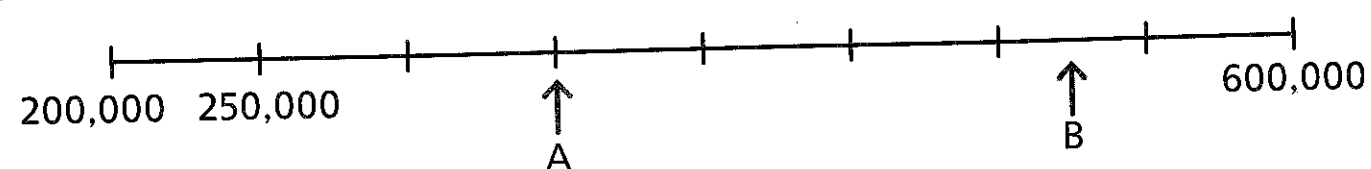
A =

B =

C =

Explain your method.

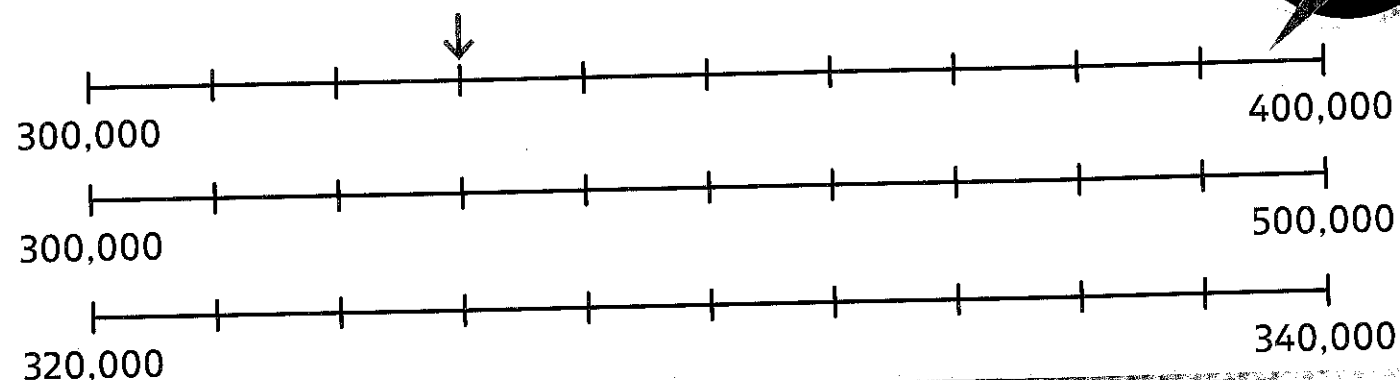
- 4 Circle all of the numbers that lie between points A and B.



220,000 370,000 318,400 507,000 47,300 429,781

- 5 A number is marked on the top number line.
Mark the same number on each of the other two number lines.

CHALLENGE



Reflect

Divide the number line up into equal intervals.



Mark 175,000 and 190,000 on the number line.

Explain how you worked out how to divide the number line into intervals.

Comparing and ordering numbers to 1,000,000

- 1 For each part, circle the greatest number.

a)

HTh	TTh	Th	H	T	O
2	5	6	2	8	2

HTh	TTh	Th	H	T	O
2	5	8	3	0	0

b)

HTh	TTh	Th	H	T	O
	7	2	4	1	5

HTh	TTh	Th	H	T	O
1	3	1	5	0	0

- c) 38,402 70,000

- d) 518,000 six hundred thousand

- e) 52,300 523,000 522,956

- 2 The number of litres of milk produced on four farms is shown in the place value table.

	100,000s	10,000s	1,000s	100s	10s	1s
Shaw Farm	3	1	8	0	2	5
Fred's Farm	2	7	4	3	1	3
High Top	3	1	8	0	4	0
Cliff Edge		7	2	4	8	1

- a) Which farm produced the smallest amount of milk?
 _____ produced the smallest amount of milk.
- b) Now put the four farms in order of how much milk they produced, starting with the smallest amount of milk.
- _____
- _____

- 3 Complete the following number sentences using the signs $<$ or $>$.

- a) $56,720 \bigcirc 73,405$ d) $59,472 \bigcirc 59,505$
- b) $300,000 \bigcirc 37,940$ e) one million $\bigcirc 764,914$
- c) $517,182 \bigcirc 517,185$ f) $3,189 \bigcirc$ thirty thousand

- 4 Complete the table by putting the following three populations in descending order.

	Population
Dover	31,200
Hull	265,180
Southampton	238,700

	Population

- 5 Make each of these number sentences correct by adding the missing digits.

- a) $561, \square 35 < 561,482$ d) $18,2 \square 7 = 1 \square, 2 \square 7$
- b) $65,9 \square 8 > 6 \square, 936$ e) $217,9 \square 1 < \square 15, \square 88 < 32 \square, 000$
- c) $4 \square 5, 3 \square 8 > 47 \square, 3 \square 8$

- 6 These numbers are in ascending order.

The same digit is missing from each box.

$$4 \square 5, \square 18 < \square 21,578 < 73 \square, 000$$

- a) What is the smallest digit that can go in each box?
- b) What is the largest digit that can go in each box?
- c) If each missing digit is different, how many different answers can you find?



Reflect

What would you do first to compare two 6-digit numbers?

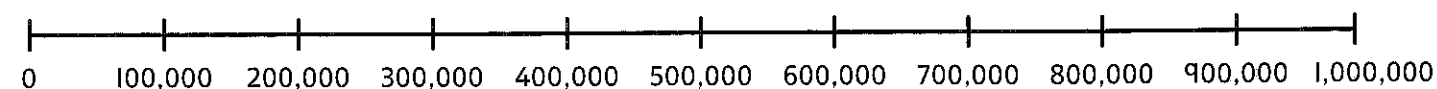
- ☐ First I would _____
- ☐ _____
- ☐ _____
- ☐ _____



Rounding numbers to 1,000,000

1 Round each of these numbers to the nearest 100,000.

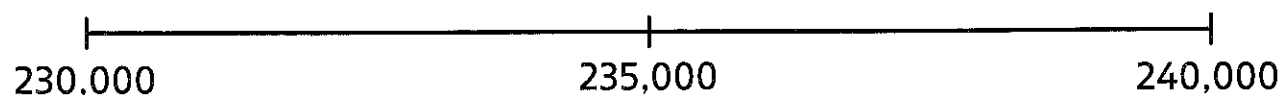
Use the number line to help you.



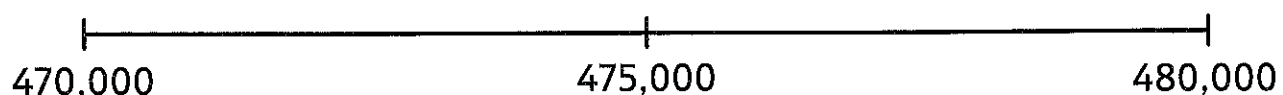
- a) 172,300 rounds to d) 705,167 rounds to
- b) 585,912 rounds to e) 79,864 rounds to
- c) 329,103 rounds to f) 650,000 rounds to

2 Round each of these numbers to the nearest 10,000.

- a) 238,700 rounds to



- b) 472,418 rounds to



- c) 159,723 rounds to f) 720,914 rounds to
- d) 418,328 rounds to g) 345,000 rounds to
- e) 34,291 rounds to h) 614,999 rounds to

3 Danny makes a number on a place value grid.

HTh	TTh	Th	H	T	O

a) What is Danny's number when rounded to the nearest 100,000?

Danny's number is rounded to the nearest 100,000.

b) What is Danny's number when rounded to the nearest 1,000?

Danny's number is rounded to the nearest 1,000.

c) Danny adds eight counters to the place value grid.

His new number rounds to 240,000 to the nearest 10,000.

Draw on the place value grid above where Danny could have placed the eight new counters.

4 Use your knowledge of rounding to complete the table.

Number	Rounded to the nearest 10,000	Rounded to the nearest 1,000	Rounded to the nearest 10
239,145			
128,783			
758,007			
		632,000	632,180
			825,430
6 <input type="text"/> 7,14 <input type="text"/>	630,000		627,150
<input type="text"/> 35, <input type="text"/> 72	640,000		

- 5 Here are six digit cards.



0	1	4	5	6	8
---	---	---	---	---	---

Arrange the digit cards to make a number that rounds to:

- a) 500,000 to the nearest 100,000

--	--	--	--	--	--

- b) 610,000 to the nearest 10,000

--	--	--	--	--	--

- c) 611,000 to the nearest 1,000

--	--	--	--	--	--

- 6 a) Olivia is thinking of a 6-digit number.

CHALLENGE

Olivia



When I round my number to the nearest 100,000, all of the digits change.

What could Olivia's number be?

- b) Kate is also thinking of a 6-digit number.

Kate



When I round my number to the nearest 1,000, all of the digits change.

What could Kate's number be?

Reflect

Which digit would you look at if you were asked to round 147,390 to the nearest 100,000? Explain why.





