

25.9.23 LO: To find numbers to 1, 000, 000 on number lines

26.9.23 LO: To compare and order numbers to 100,000

27.9.23 LO: To compare and order numbers to 1,000,000

28.9.23 To round to the nearest 10, 100 or 1,000

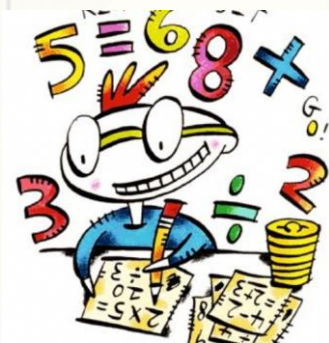
25.9.23 LO: To find numbers to 1, 000, 000 on number lines

26.9.23 LO: To compare and order numbers to 100,000

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28.9.23 To round to the nearest 10, 100 or 1,000

Maths Three Repeating Golden Threads



Mastery

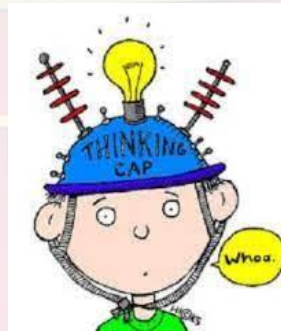
Pupils acquire a deep, long-term, secure adaptable understanding

Fluency

Quick and. efficient recall of facts and procedures

Application

The use of maths everyday in the real world, outside the classroom.



25.9.23 LO: To find numbers to 1,000,000 on number lines

DO NOW...stick in books!

1) Complete the number tracks.

100	200						
-----	-----	--	--	--	--	--	--

3,000	4,000						
-------	-------	--	--	--	--	--	--

44,000	44,200	44,400					
--------	--------	--------	--	--	--	--	--

2) $100,000 \div 10 =$

3) $10,000 \div 2 =$

4) $10,000 \div 4 =$

1) Complete the number tracks.

100	200						
-----	-----	--	--	--	--	--	--

3,000	4,000						
-------	-------	--	--	--	--	--	--

44,000	44,200	44,400					
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-----	-----	--	--	--	--	--	--

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

44,000	44,200	44,400					
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Mon

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100	200						
-----	-----	--	--	--	--	--	--

3,000	4,000						
-------	-------	--	--	--	--	--	--

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

3,000	4,000						
-------	-------	--	--	--	--	--	--

44,000	44,200	44,400					
--------	--------	--------	--	--	--	--	--

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3,000	4,000						
-------	-------	--	--	--	--	--	--

44,000	44,200	44,400					
--------	--------	--------	--	--	--	--	--

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100	200						
-----	-----	--	--	--	--	--	--

3,000	4,000						
-------	-------	--	--	--	--	--	--

44,000	44,200	44,400					
--------	--------	--------	--	--	--	--	--

1) Complete the number tracks.

100	200						
-----	-----	--	--	--	--	--	--

3,000	4,000						
-------	-------	--	--	--	--	--	--

44,000	44,200	44,400					
--------	--------	--------	--	--	--	--	--

1) Complete the number tracks.

100	200	300	400	500	600	700	800
-----	-----	-----	-----	-----	-----	-----	-----

3,000	4,000	5,000	6,000	7,000	8,000	9,000	10,000
-------	-------	-------	-------	-------	-------	-------	--------

44,000	44,200	44,400	44,600	44,800	45,000	45,200	45,400
--------	--------	--------	--------	--------	--------	--------	--------

2) $100,000 \div 10 = 10,000$

3) $10,000 \div 2 = 5,000$

4) $10,000 \div 4 = 2,500$

Crucial Vocab...

one million
number line
Interval
mid-point

one million
number line
Interval
mid-point

one million
number line
Interval
mid-point

one million
number line
Interval
mid-point

one million
number line
Interval
mid-point

one million
number line
Interval
mid-point

one million
number line
Interval
mid-point

one million
number line
Interval
mid-point

one million
number line
Interval
mid-point

Block Place Value

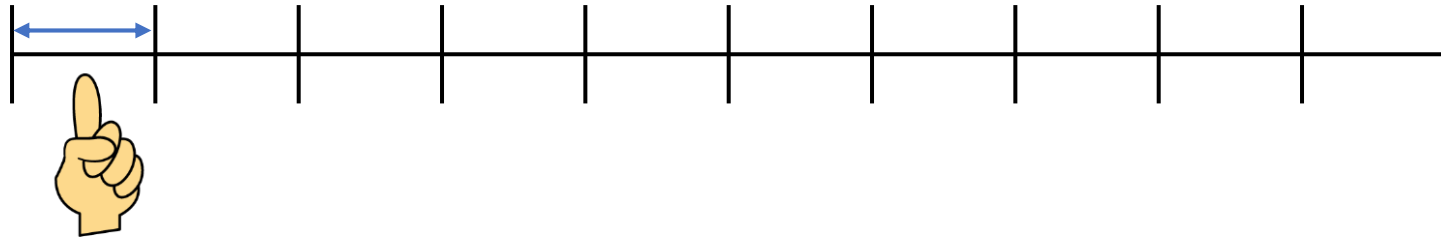
Key vocabulary

Roman Numerals, number system, place holder, one, ten, hundred, thousand, ten thousand, hundred thousand, millions, compare, order, rounding

	WT	EX	S
Roman numerals to 1000			
Numbers to 10,000			
Numbers to 100,000			
Numbers to 1,000,000			
Read and write numbers to 1,000,000			
Powers of 10			
10/100/1000/10,000/100,000 more or less			
Partition numbers to 1,000,000			
Number line to 1,000,000			
Compare and order numbers to 100,000			
Compare and orders numbers to 1,000,000			
Round to the nearest 10, 100 or 1000			
Round within 100,000			
Round within 1,000,000			

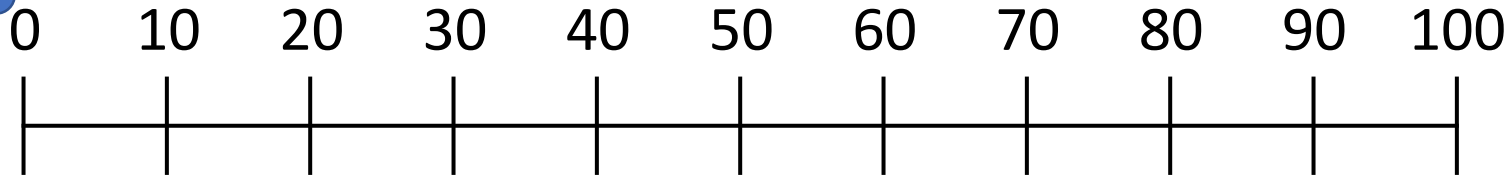
Stem sentences

- The letter — represents the number —
- I know is greater than because ...
- The value of the — in — is
- The column before/after the — column is the — column.
- 10 — can be exchanged for 1 —
- 1 — can be exchanged for —
- The number before/after the comma is — This part of the number is said/written as —
- The whole of the number is said/written as —



What is an interval?

There are 10 intervals on this number line.

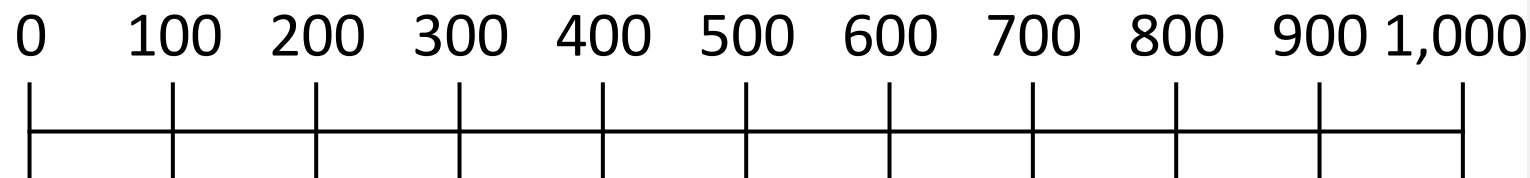
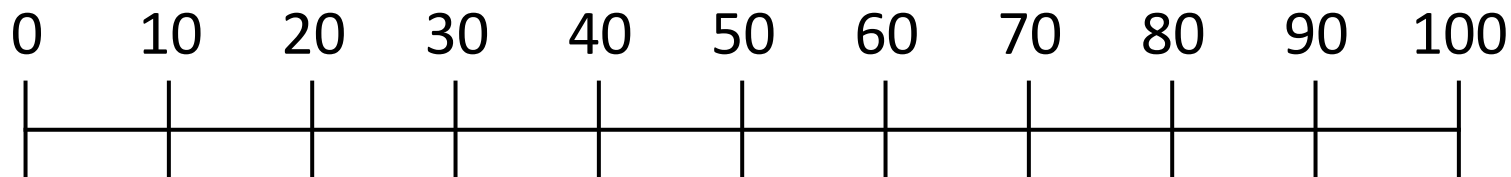


The difference in value between the start and end point is 100

There are 10 intervals.

$$100 \div 10 = 10$$

The number line is counting up in 10s

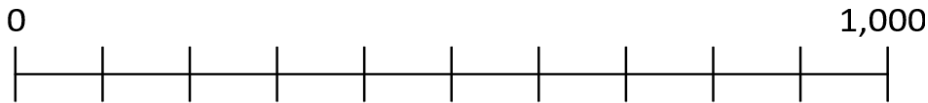


The difference in value between the start and end point is 1,000

There are 10 intervals. Have a think
 $1,000 \div 10 = 100$

The number line is counting up in 100s

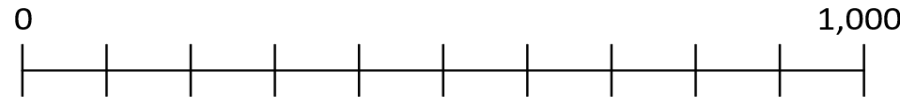




The difference in value between the start and end point is _____

There are __ intervals.

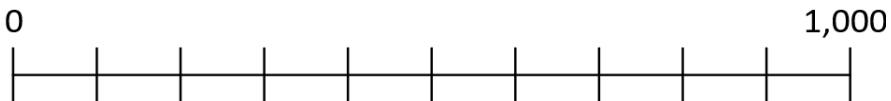
The number line is counting up in _____



The difference in value between the start and end point is _____

There are __ intervals.

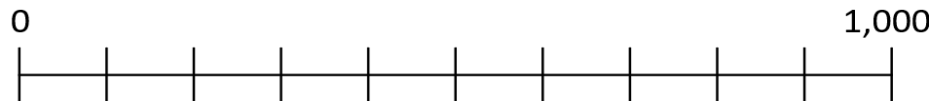
The number line is counting up in _____



The difference in value between the start and end point is _____

There are __ intervals.

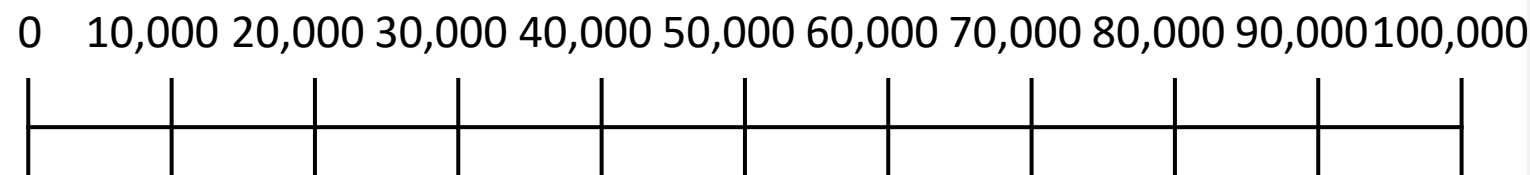
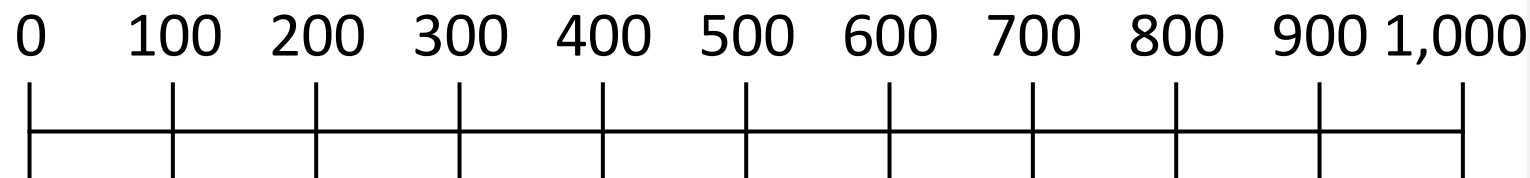
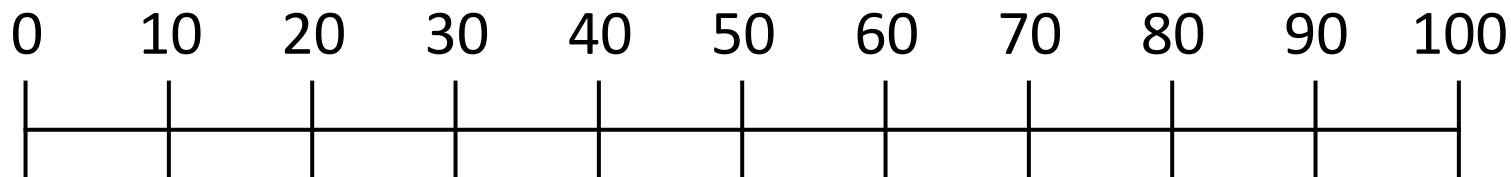
The number line is counting up in _____



The difference in value between the start and end point is _____

There are __ intervals.

The number line is counting up in _____



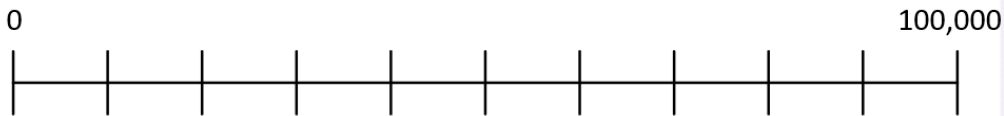
The difference in value between the start and end point is 100,000

There are 10 intervals.

The number line is counting up in 10,000s

$100,000 \div 10 = 10,000$ Have a think

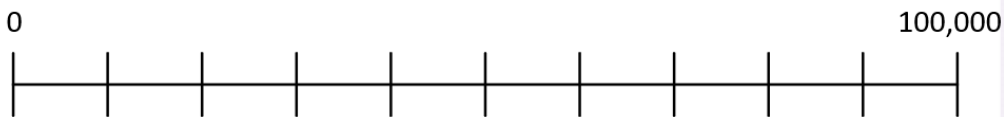




The difference in value between the start and end point is _____

There are ____ intervals.

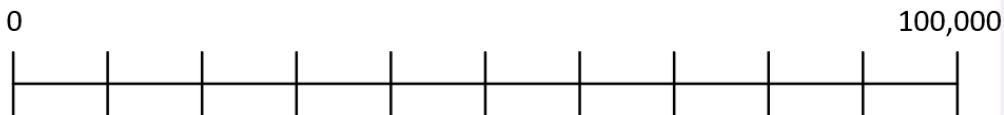
The number line is counting up in _____



The difference in value between the start and end point is _____

There are ____ intervals.

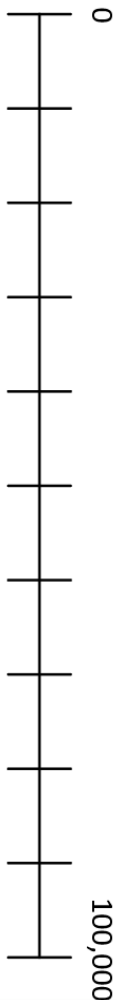
The number line is counting up in _____



The difference in value between the start and end point is _____

There are ____ intervals.

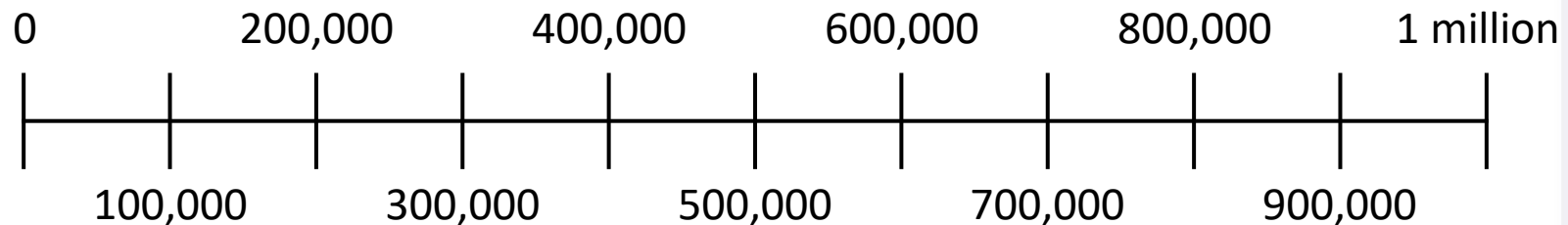
The number line is counting up in _____



The difference in value between the start and end point is _____

There are ____ intervals.

The number line is counting up in _____

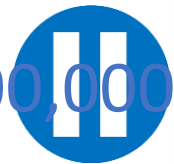


The difference in value between the start and end point is 1,000,000

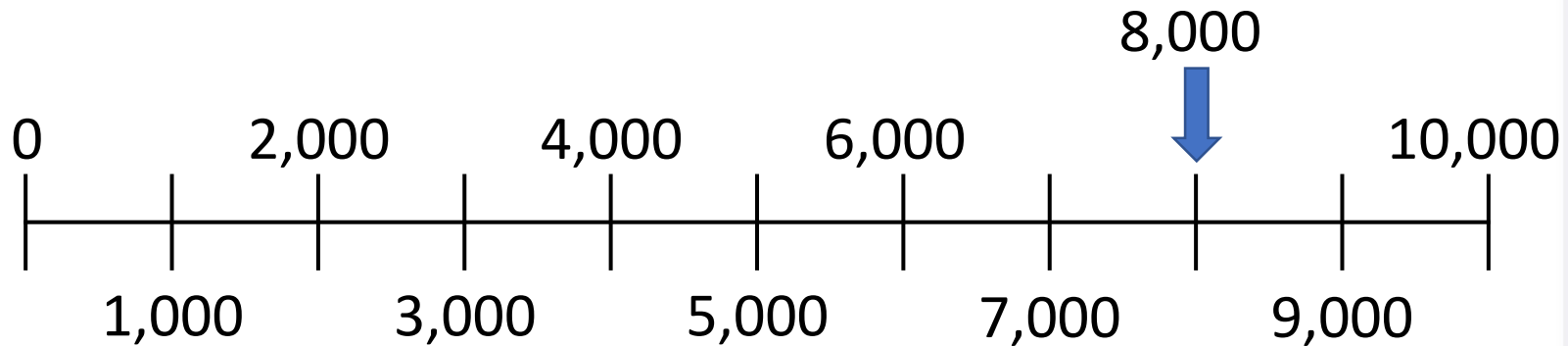
There are 10 intervals.

The number line is counting up in 100,000s

$1,000,000 \div 10 = 100,000$ Have a think



What number is the arrow pointing to?



The difference in value between the start and end point is 10,000

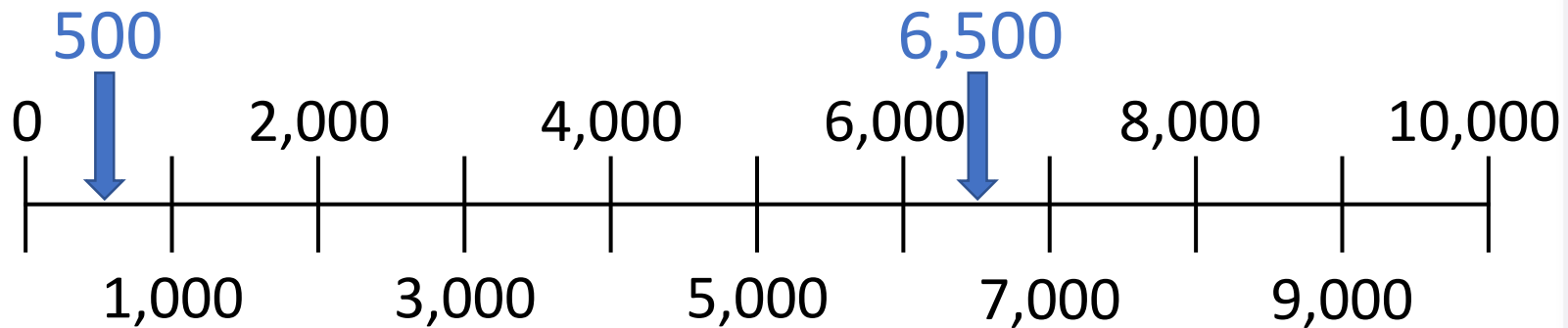
There are 10 intervals.

$$10,000 \div 10 = 1,000$$

The number line is counting up in 1,000s



What number is the arrow pointing to?



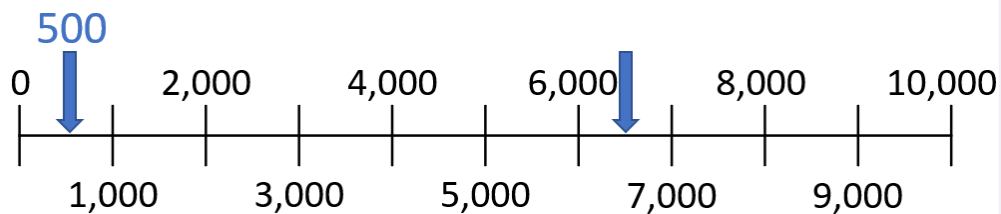
The midpoint between 6,000 and 7,000 is 6,500

$$1,000 \div 2 = 500$$

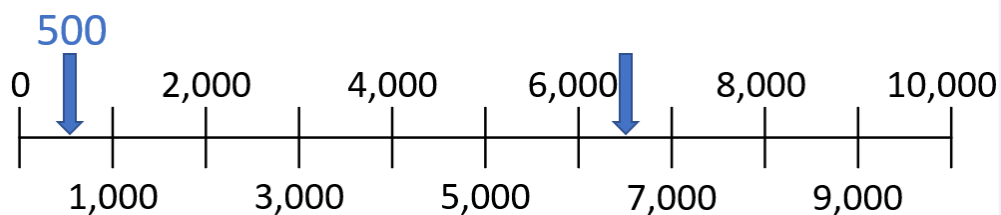
Have a think



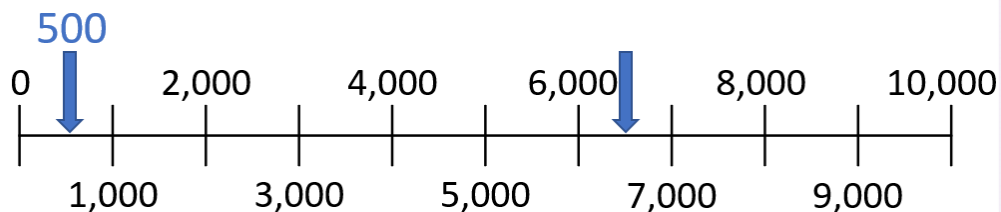
What number is the arrow pointing to?



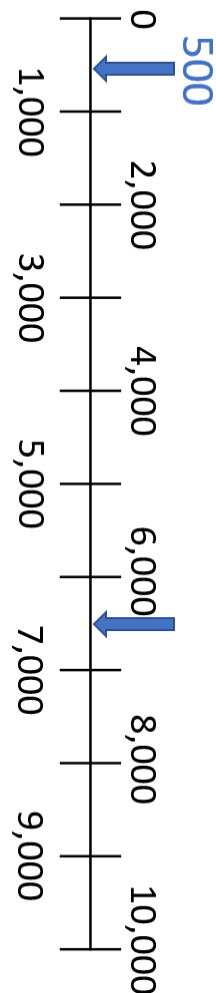
What number is the arrow pointing to?



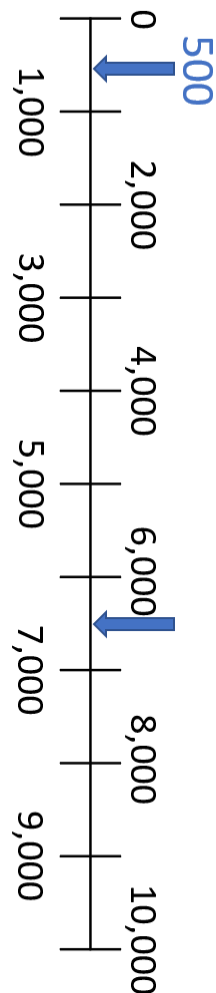
What number is the arrow pointing to?



What number is the arrow pointing to?



What number is the arrow pointing to?



Mon

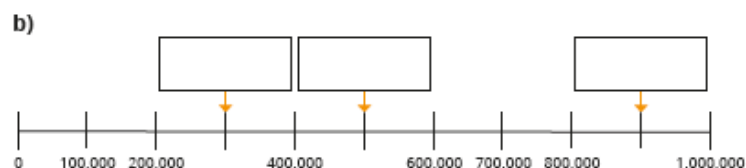
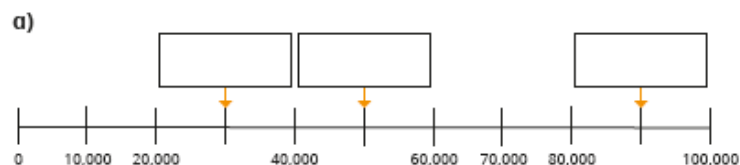


Your turn

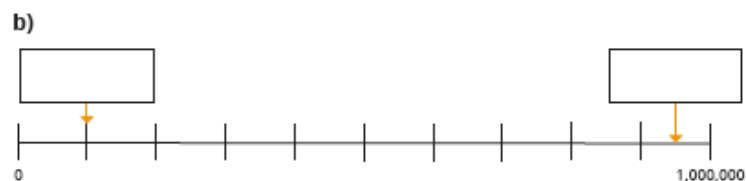
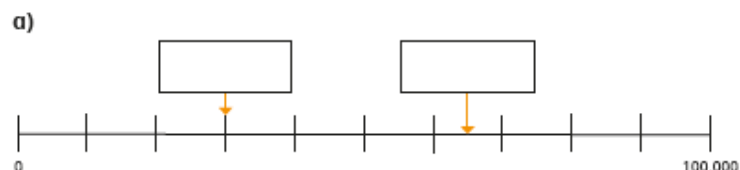


Number line to 1,000,000

1 What numbers are the arrows pointing to?



2 What numbers are the arrows pointing to?



3 Label the numbers on the number line.

500,000 300,000 50,000 850,000



4 Complete the sentences and the number lines.



The difference between the start and end points is

There are equal intervals.

The number line is counting up in _____



The difference between the start and end points is

There are equal intervals.

The number line is counting up in _____



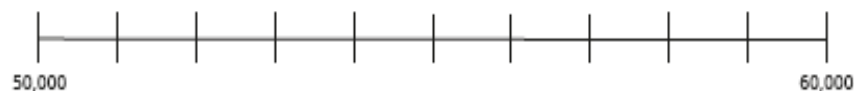
The difference between the start and end points is

There are equal intervals.

The number line is counting up in _____

4 Complete the sentences and the number lines.

a)



The difference between the start and end points is

There are equal intervals.

The number line is counting up in _____

b)



The difference between the start and end points is

There are equal intervals.

The number line is counting up in _____

c)



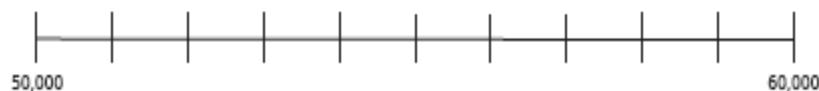
The difference between the start and end points is

There are equal intervals.

The number line is counting up in _____

4 Complete the sentences and the number lines.

a)



The difference between the start and end points is

There are equal intervals.

The number line is counting up in _____

b)



The difference between the start and end points is

There are equal intervals.

The number line is counting up in _____

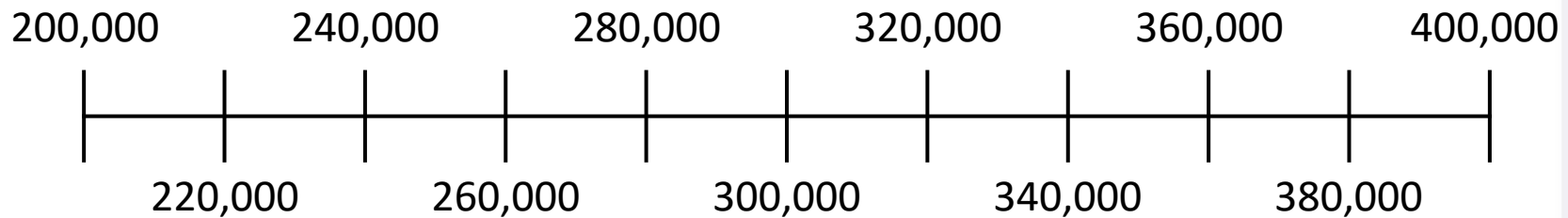
c)



The difference between the start and end points is

There are equal intervals.

The number line is counting up in _____

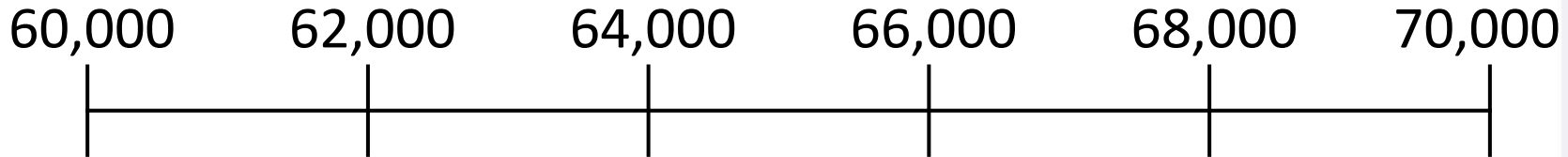


The difference in value between the start and end point is 200,000

There are 10 intervals.

The number line is counting up in 20,000s

$$200,000 \div 10 = 20,000$$



Have a think



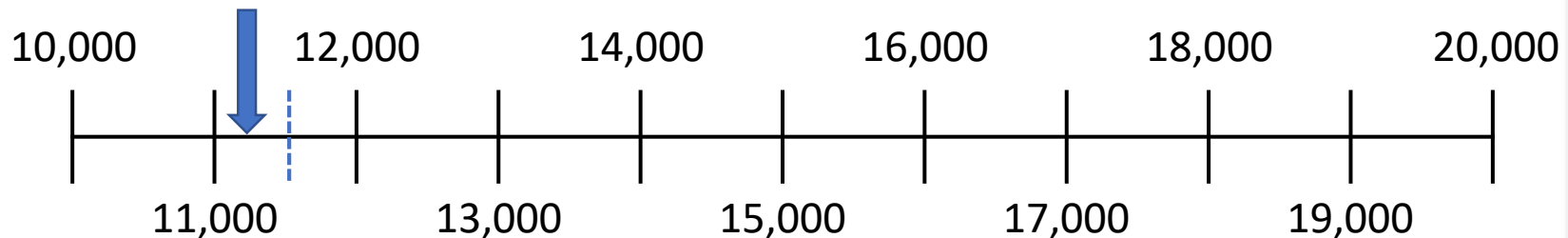
The difference in value between the start and end point is 10,000

$$10,000 \div 5 = 2,000$$

There are 5 intervals.

The number line is counting up in 2,000s

Estimate the number the arrow pointing to.



The arrow is pointing between 11,000 and 12,000

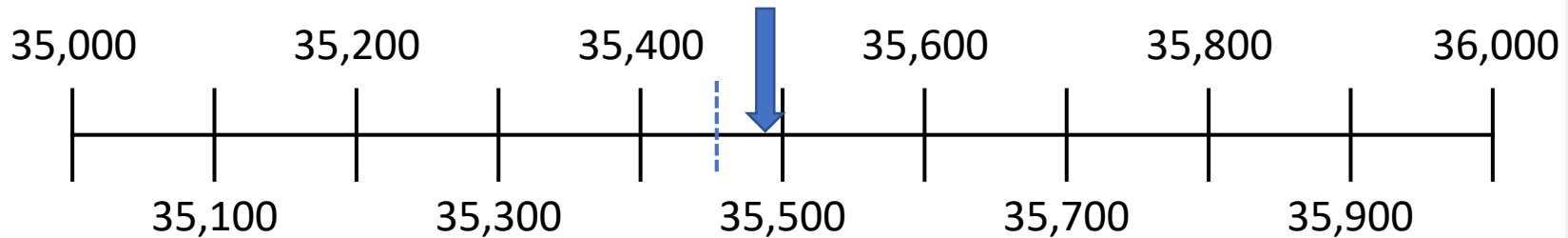
The midpoint between 11,000 and 12,000 is 11,500

The arrow is pointing to the left of the midpoint.

The arrow is approximately pointing to 11,200



Estimate the number the arrow pointing to.



Have a think



The arrow is pointing between 35,400 and 35,500

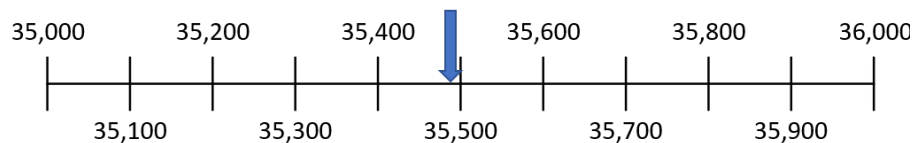
The midpoint between 35,400 and 35,500 is 35,450

The arrow is pointing to the right of the midpoint.

The arrow is approximately pointing to 35,490



Estimate the number the arrow pointing to.



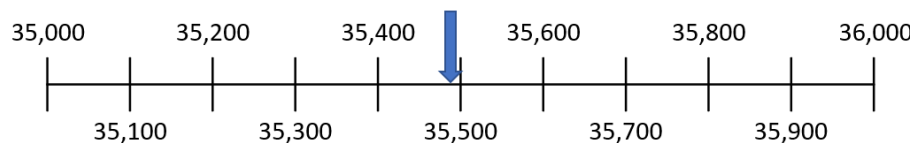
The arrow is pointing between _____ and _____

The midpoint between _____ and _____ is _____

The arrow is pointing to the _____ of the midpoint

The arrow is approximately pointing to _____

Estimate the number the arrow pointing to.



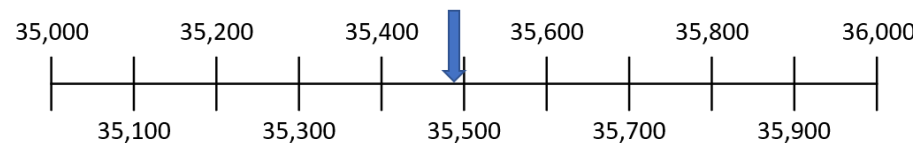
The arrow is pointing between _____ and _____

The midpoint between _____ and _____ is _____

The arrow is pointing to the _____ of the midpoint

The arrow is approximately pointing to _____

Estimate the number the arrow pointing to.



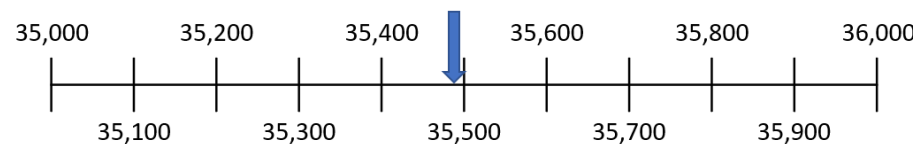
The arrow is pointing between _____ and _____

The midpoint between _____ and _____ is _____

The arrow is pointing to the _____ of the midpoint

The arrow is approximately pointing to _____

Estimate the number the arrow pointing to.



The arrow is pointing between _____ and _____

The midpoint between _____ and _____ is _____

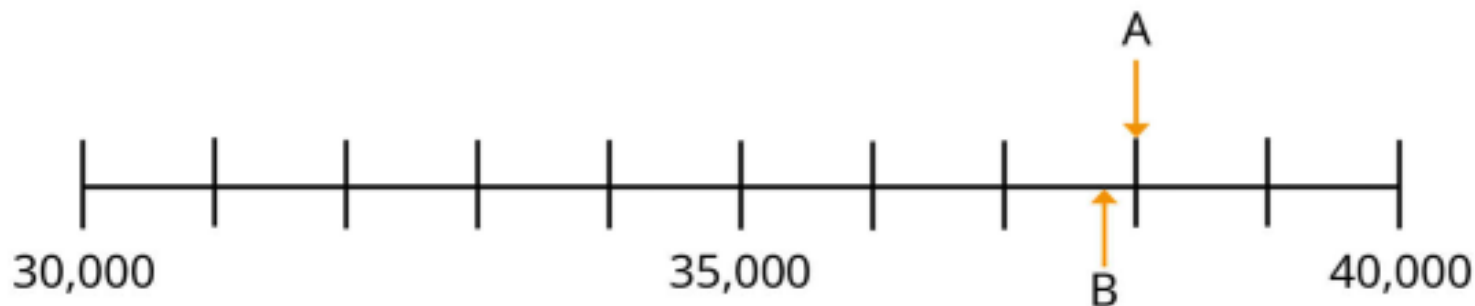
The arrow is pointing to the _____ of the midpoint

The arrow is approximately pointing to _____

Extension task...



Here is a number line.



What is the value of A?

B is 100 less than A.

What is the value of B?

C is 1,000 less than B.

Label C on the number line.

Maths Meeting- Mon Key skills



26.9.23 LO: To compare and order numbers to 100,000

DO NOW... Prove it!

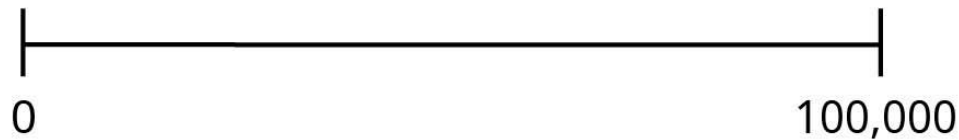
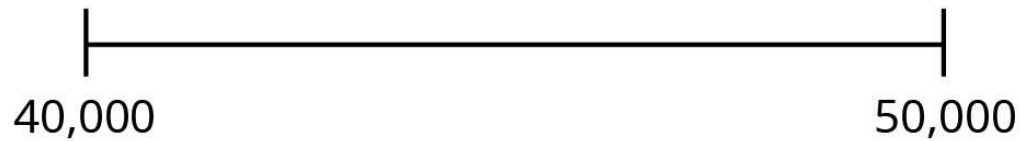
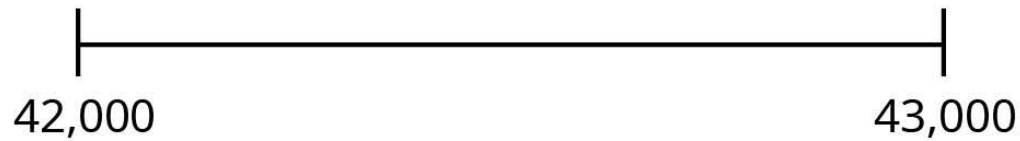
Estimate the position of 42,500 on each number line.



Explain your method.



Estimate the position of 42,500 on each number line.

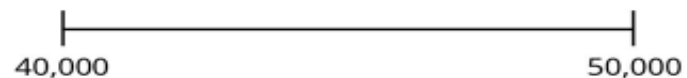


Explain your method.



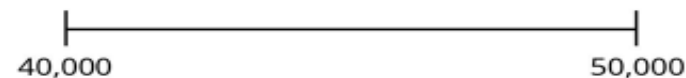
Tues

Estimate the position of 42,500 on each number line.



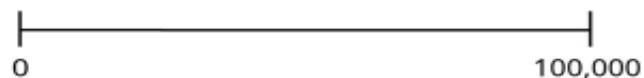
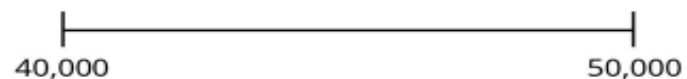
Explain your method.

Estimate the position of 42,500 on each number line.



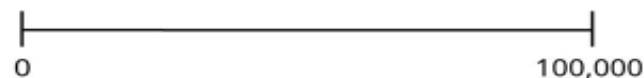
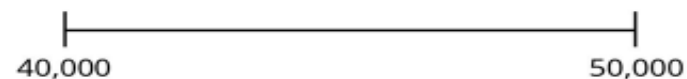
Explain your method.

Estimate the position of 42,500 on each number line.



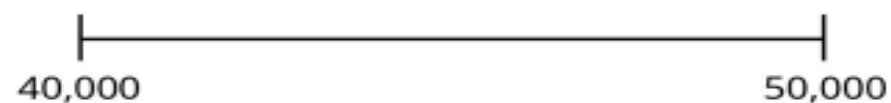
Explain your method.

Estimate the position of 42,500 on each number line.



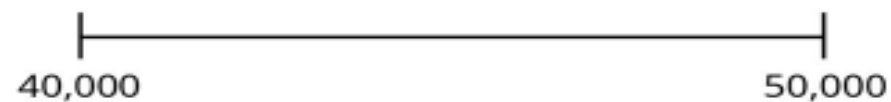
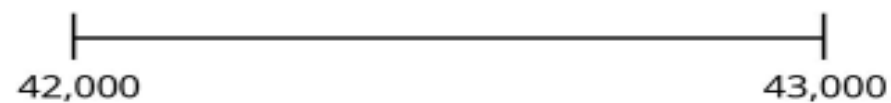
Explain your method.

Estimate the position of 42,500 on each number line.

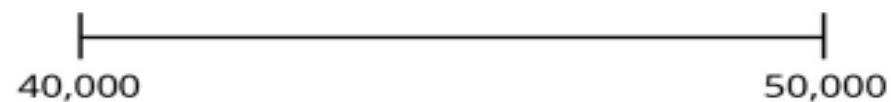


Tues S

Estimate the position of 42,500 on each number line.



Estimate the position of 42,500 on each number line.



Block Place Value

Key vocabulary

Roman Numerals, number system, place holder, one, ten, hundred, thousand, ten thousand, hundred thousand, millions, compare, order, rounding

	WT	EX	S
Roman numerals to 1000			
Numbers to 10,000			
Numbers to 100,000			
Numbers to 1,000,000			
Read and write numbers to 1,000,000			
Powers of 10			
10/100/1000/10,000/100,000 more or less			
Partition numbers to 1,000,000			
Number line to 1,000,000			
Compare and order numbers to 100,000			
Compare and orders numbers to 1,000,000			
Round to the nearest 10, 100 or 1000			
Round within 100,000			
Round within 1,000,000			

Stem sentences

- The letter — represents the number —
- I know is greater than because ...
- The value of the — in — is
- The column before/after the — column is the — column.
- 10 — can be exchanged for 1 —
- 1 — can be exchanged for —
- The number before/after the comma is — This part of the number is said/written as —
- The whole of the number is said/written as —

Crucial Vocab...

compare
order
place value
ascending
descending

compare
order
place value
ascending
descending

compare
order
place value
ascending
descending

compare
order
place value
ascending
descending

compare
order
place value
ascending
descending

compare
order
place value
ascending
descending

compare
order
place value
ascending
descending

Tues

1) $300 + 4 + 10,000 =$

RECAP!

2) $C =$

$I =$

$X =$

$V =$

Write answers in
books!

3) What does ascending mean?

4) What does descending mean?



1) $300 + 4 + 10,000 = 10,304$

2) $C = 100$

$$I = 1$$

$$X = 10$$

$$V = 5$$

3) What does ascending mean? Increasing in size

4) What does descending mean? Decreasing in size

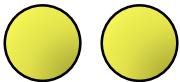
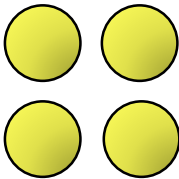
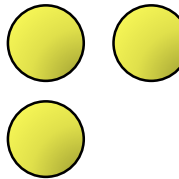


Let's learn

Get ready for today's
new learning.



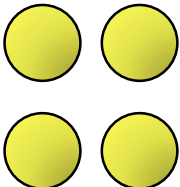
Dexter's
number
24,013

TTh	Th	H	T	O
				
2	4	0	1	3

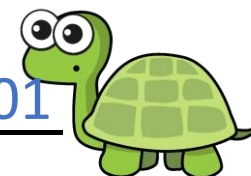
$$24,013 < 40,101$$



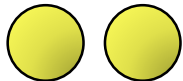
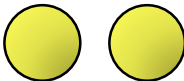
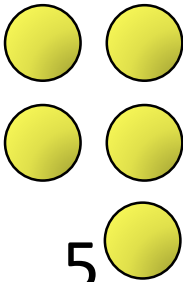
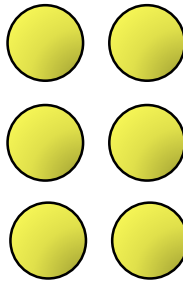
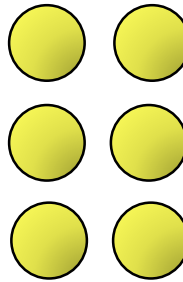
Dora's
number
40,101

TTh	Th	H	T	O
				
4	0	1	0	1

Dexter's number is ~~greater~~ / less than Dora's number.
~~The first place value column I need~~
 10 counters to look at is ~~greater~~ / less than.

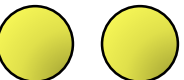
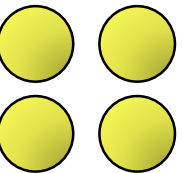
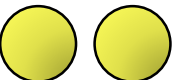


A

TTh	Th	H	T	O
				
2	2	5		

$$22,566 > 22,421$$

B

TTh	Th	H	T	O
				
2	2	4		

The first greater/less than I need
so 22,566 is greater/less than 22,421

Order the numbers, start with the greatest number.

TTh	Th	H	T	O
	3	2	1	0
TTh	Th	H	T	O
		3	2	1
TTh	Th	H	T	O
	2	3	0	2
TTh	Th	H	T	O
	2	2	1	3

3,210

The first place value column I need
to look at is thousands

2,302

2,213

321



Order the numbers, start with the greatest number.

TTh	Th	H	T	O
	3	2	1	0
TTh	Th	H	T	O
		3	2	1
TTh	Th	H	T	O
	2	3	0	2
TTh	Th	H	T	O
	2	2	1	3

The first place value column I need
to look at is _____

Order the numbers, start with the greatest number.

TTh	Th	H	T	O
	3	2	1	0
TTh	Th	H	T	O
		3	2	1
TTh	Th	H	T	O
	2	3	0	2
TTh	Th	H	T	O
	2	2	1	3

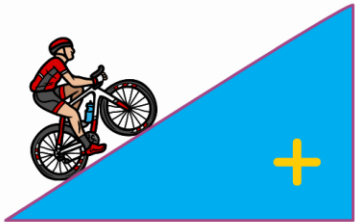
The first place value column I need
to look at is _____

Write the numbers in **ascending** order.

 5,109	99	11,022	513	 5,122
<u>99</u>	<u>513</u>	<u>5,109</u>	<u>5,122</u>	<u>11,022</u>

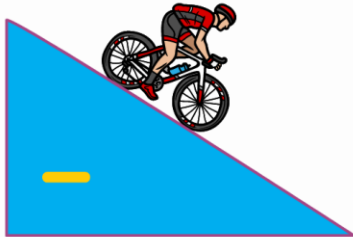
Have a think





Ascending

Letter "A" points up



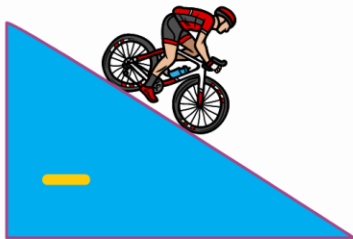
Descending

"D" for Down



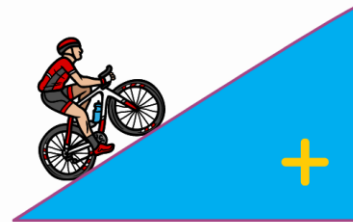
Ascending

Letter "A" points up



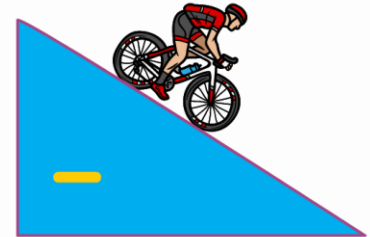
Descending

"D" for Down



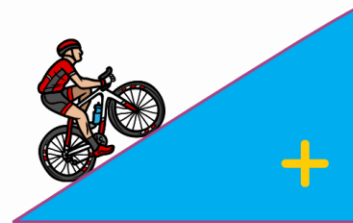
Ascending

Letter "A" points up



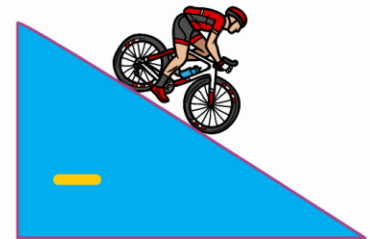
Descending

"D" for Down



Ascending

Letter "A" points up



Descending

"D" for Down

Tues S



Your turn



- 1 Rosie and Jack have each made a number.



Rosie's number

TTh	Th	H	T	O
●● ●● ●● ●●	●●	●● ●●	●●	●● ●● ●● ●● ●●



Jack's number

TTh	Th	H	T	O
●● ●● ●● ●●	●● ●● ●●	●● ●●	●●	●● ●● ●● ●● ●●

- a) Who has made the greater number? _____

How do you know?

- b) Draw counters on the place value chart to show a number that is greater than both Rosie's and Jack's.

TTh	Th	H	T	O

- 1 Rosie and Jack have each made a number.



Rosie's number

TTh	Th	H	T	O
●● ●● ●● ●●	●●	●● ●●	●●	●● ●● ●● ●● ●●



Jack's number

TTh	Th	H	T	O
●● ●● ●● ●●	●● ●● ●●	●● ●●	●●	●● ●● ●● ●● ●●

- a) Who has made the greater number? _____

How do you know?

- b) Draw counters on the place value chart to show a number that is greater than both Rosie's and Jack's.

TTh	Th	H	T	O

4

Write the numbers in order, starting with the smallest.

a) 9,000 908 972 99 90,000

b) 700 72 576 907 27

ascending



5 Write $<$, $>$ or $=$ to compare the numbers.

a) 908 909

e) 200 29

b) 81,227 80,999

f) $300 + 27$ $200 + 127$

c) 7,163 7,262

g) $4,000 + 10,000$ 13,000

d) $982 + 1$ $984 - 1$

h) $19,000 + 70 + 200$ 19,270



Write <, > or = to compare the numbers.

a) 908 909 e) 200 29

b) 81,227 80,999 f) 300 + 27 200 + 127

c) 7,163 7,262 g) 4,000 + 10,000 13,000

d) 982 + 1 984 - 1 h) 19,000 + 70 + 200 19,270

Write <, > or = to compare the numbers.

a) 908 909

e) 200 29

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f) 300 + 27 200 + 127

c) 7,163 7,262

g) 4,000 + 10,000 13,000

d) 982 + 1 984 - 1

h) 19,000 + 70 + 200 19,270

Write <, > or = to compare the numbers.

a) 908 909

e) 200 29

b) 81,227 80,999

f) 300 + 27 200 + 127

c) 7,163 7,262

g) 4,000 + 10,000 13,000

d) 982 + 1 984 - 1

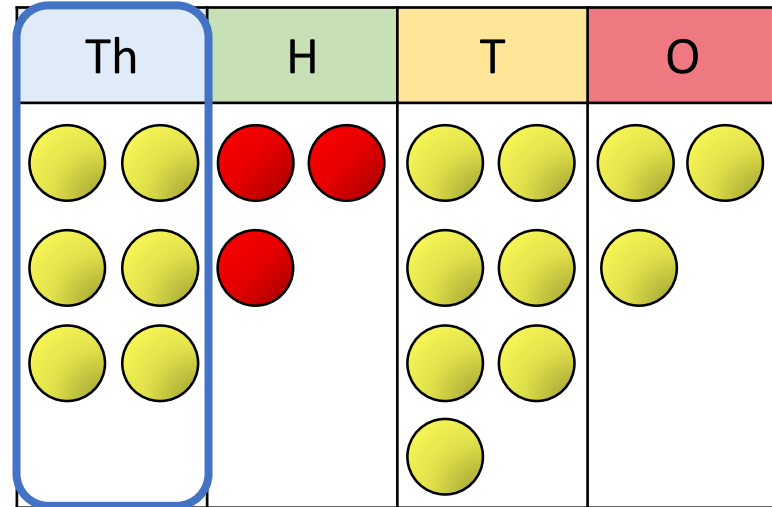
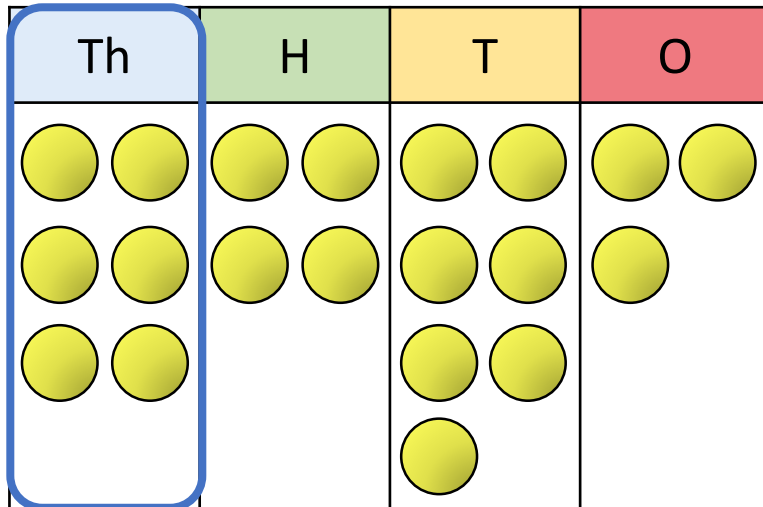
h) 19,000 + 70 + 200 19,270

6,473

>

6,___73

1
2
3
0



Have a think



Extension



6

Here are five digit cards.

8

5

7

4

9

- a) How many different 5-digit numbers can you make between 50,000 and 55,000 using the digit cards?

- b) Write your answers in descending order.

Maths Meeting- Tues Key skills



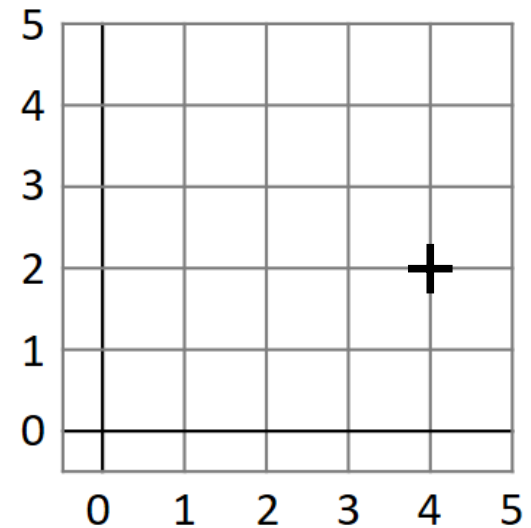
M

1) Write the number 345,207 in words.

2) Write 1,500 in Roman numerals.

3) Write the coordinates for the point shown on the grid.

4) $7,437 + 1,786 =$



M

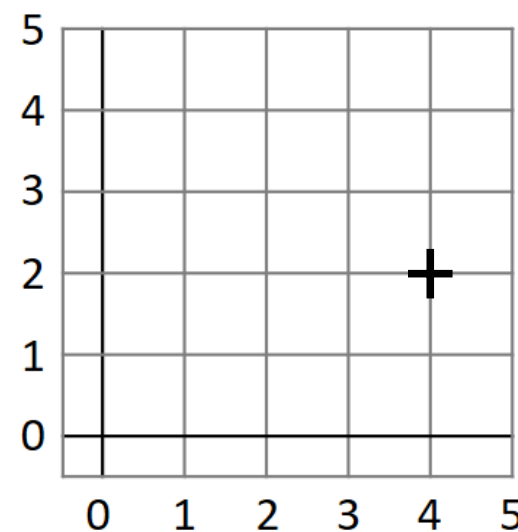
1) Write the number 345,207 in words.

Three hundred and forty five thousand, two hundred and seven

2) Write 1,500 in Roman numerals. M

D

3) Write the coordinates for the point shown on the grid. (4, 2)



4) $7,437 + 1,786 = 9,22$
3

27.9.23 LO: To compare and order numbers to 1,000,000



1) What digit is in the ten-thousands place in 703,562?

Write answers in your book

2) 6,834 6,934 _____

3) Match the symbols to the correct meanings.

>

greater than

<

less than

4) 1,003 ○ 978

1) What digit is in the ten-thousands place in 703,562?

2) 6,834 6,934 _____

3) Match the symbols to the correct meanings.

>

greater than

<

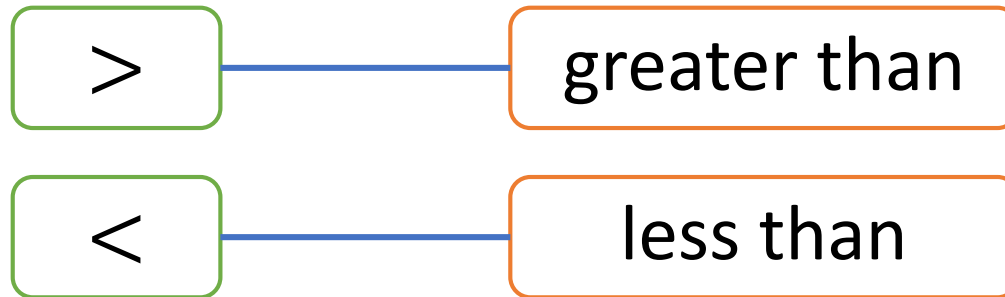
less than

4) 1,003 ○ 978

1) What digit is in the ten-thousands place in 703,562? 0

2) 6,834 6,934 7,034 7,134

3) Match the symbols to the correct meanings.



4) 1,003 $>$ 978

Block Place Value

Key vocabulary

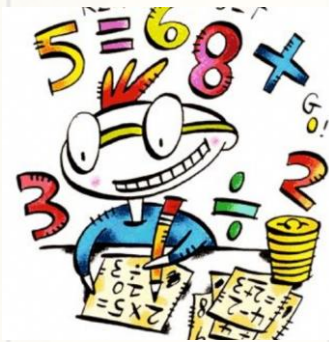
Roman Numerals, number system, place holder, one, ten, hundred, thousand, ten thousand, hundred thousand, millions, compare, order, rounding

	WT	EX	S
Roman numerals to 1000			
Numbers to 10,000			
Numbers to 100,000			
Numbers to 1,000,000			
Read and write numbers to 1,000,000			
Powers of 10			
10/100/1000/10,000/100,000 more or less			
Partition numbers to 1,000,000			
Number line to 1,000,000			
Compare and order numbers to 100,000			
Compare and orders numbers to 1,000,000			
Round to the nearest 10, 100 or 1000			
Round within 100,000			
Round within 1,000,000			

Stem sentences

- The letter — represents the number —
- I know is greater than because ...
- The value of the — in — is
- The column before/after the — column is the — column.
- 10 — can be exchanged for 1 —
- 1 — can be exchanged for —
- The number before/after the comma is — This part of the number is said/written as —
- The whole of the number is said/written as —

Maths Three Repeating Golden Threads



Mastery

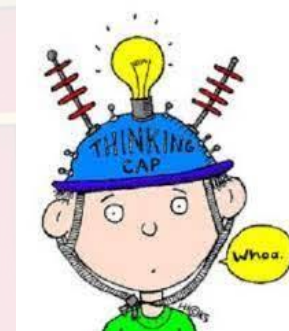
Pupils acquire a deep, long-term, secure adaptable understanding

Fluency

Quick and. efficient recall of facts and procedures

Application

The use of maths everyday in the real world, outside the classroom.



Crucial Vocab...

compare
order
place value
ascending
descending

compare
order
place value
ascending
descending

compare
order
place value
ascending
descending

compare
order
place value
ascending
descending

compare
order
place value
ascending
descending

compare
order
place value
ascending
descending

compare
order
place value
ascending
descending



Let's learn

Get ready for today's
new learning.



Dora's number
110,010

HTh	TTh	Th	H	T	O
●	●			●	
1	1	0	0	1	0



Dexter's number
102,320

HTh	TTh	Th	H	T	O
●		● ●	● ● ●	● ●	
1	0	2	3	2	0

110,010 > 102,320

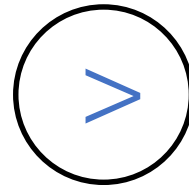
~~the first greater value than I need~~

so to look at 110,010 hundred-thousands 102,320



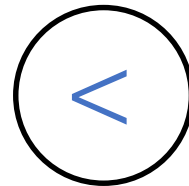
Complete the number sentences using the correct **inequality sign**.

One hundred
thousand and one
100,001



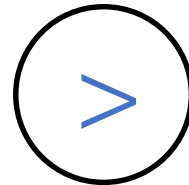
64,032

07,489



74,890

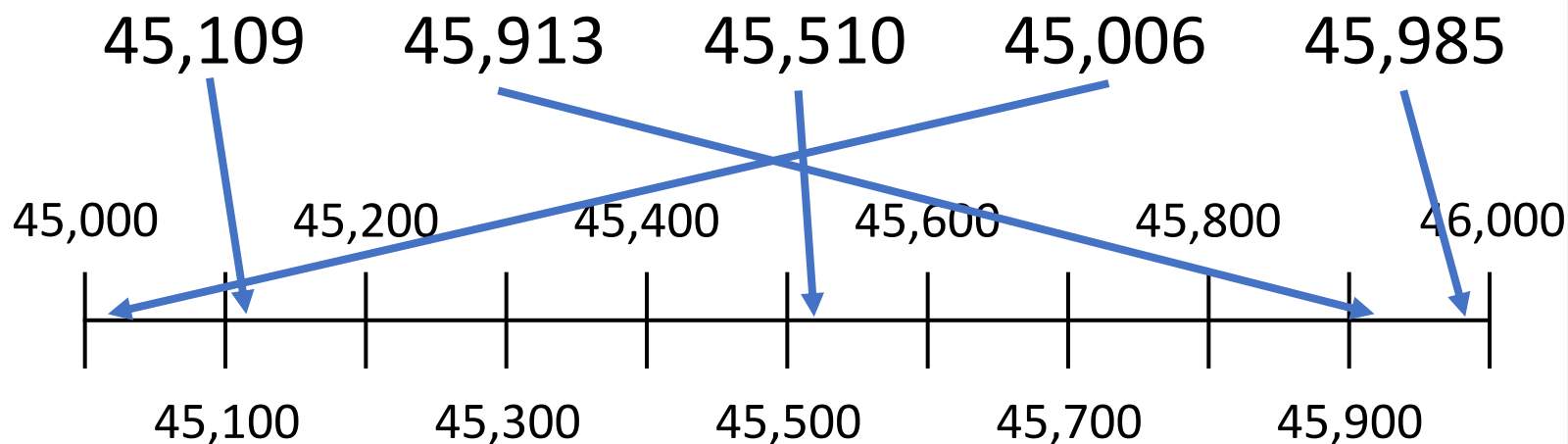
477,380



477,308



Use the number line to help write the numbers in descending order.



The difference in value between the start and end point is

$$\frac{45,985 - 45,006}{100} = 9,979$$

There are 10 intervals.

The number line is counting up in 100s

Use place value charts to help

Use the number line to help write the numbers in descending order.

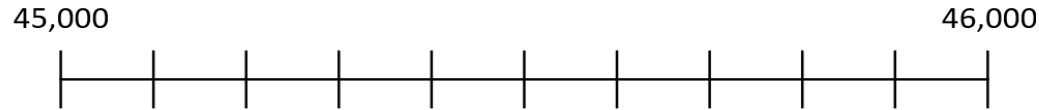
45,109 45,913 45,510 45,006 45,985

45,000
46,000

Weds

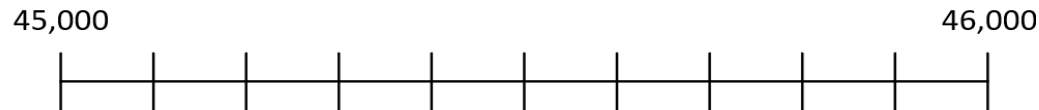
Use the number line to help write the numbers in descending order.

45,109 45,913 45,510 45,006 45,985



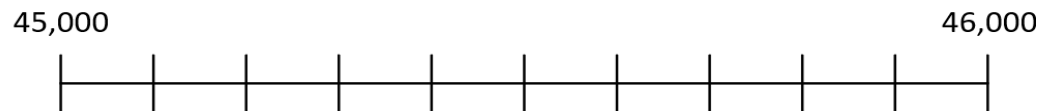
Use the number line to help write the numbers in descending order.

45,109 45,913 45,510 45,006 45,985



Use the number line to help write the numbers in descending order.

45,109 45,913 45,510 45,006 45,985



Order the numbers, starting with the greatest.

45,109	4,923	45,910	49,006	45,915
<u>49,006</u>	<u>45,915</u>	<u>45,910</u>	<u>45,109</u>	<u>4,923</u>

Have a think 



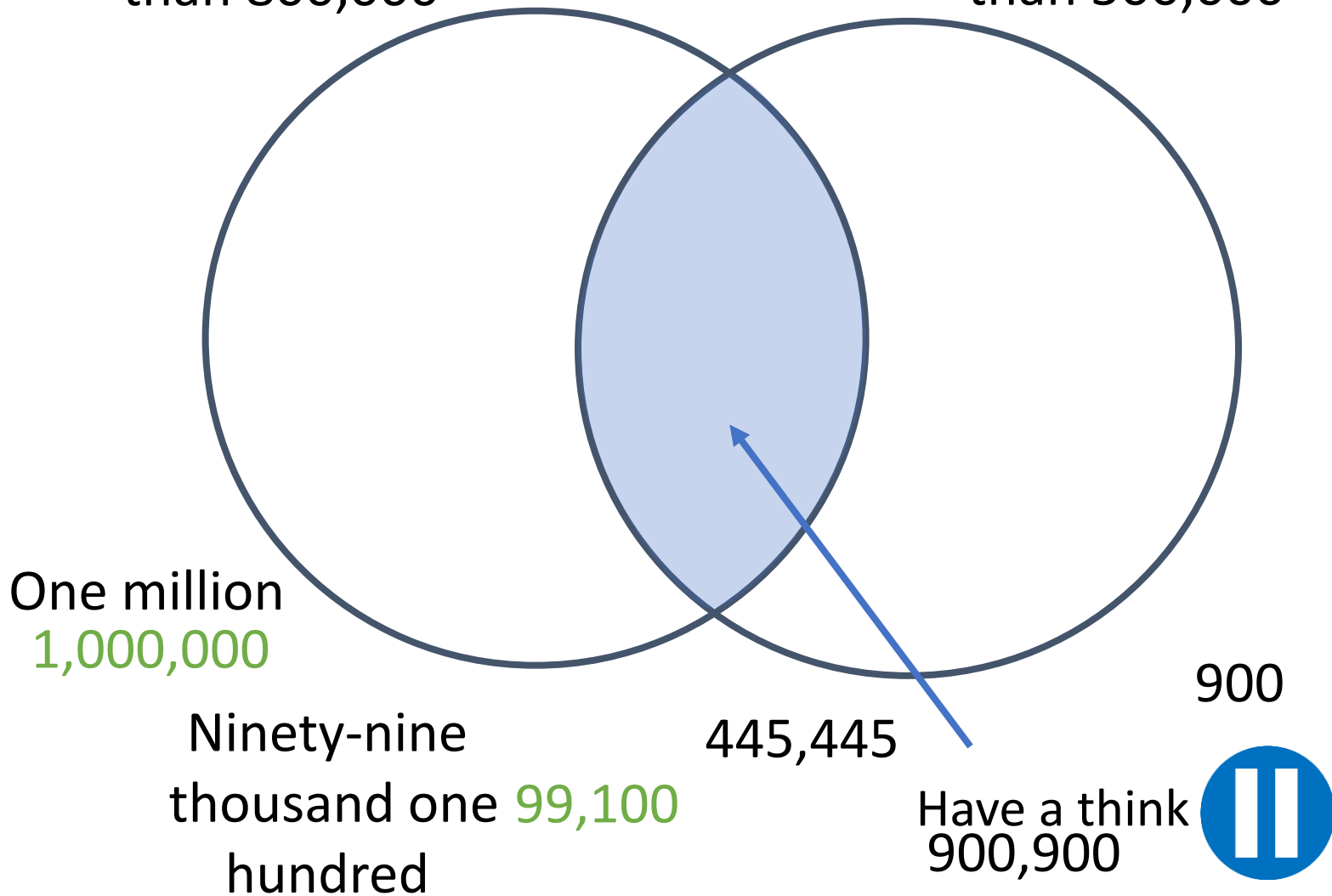
Your turn

Have a go at questions 1 - 7 on
the worksheet



Numbers greater
than 800,000

Numbers less
than 500,000



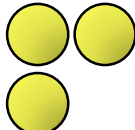
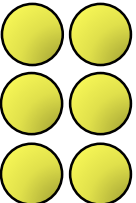
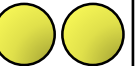
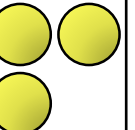
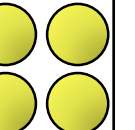
362,324

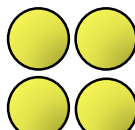
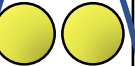
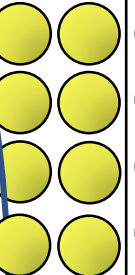
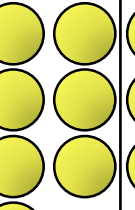
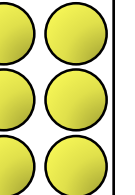
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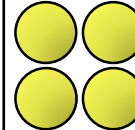
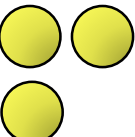
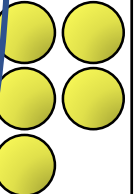
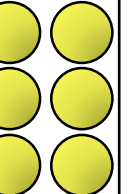
~~4~~02,876

<

~~4~~0~~3~~,516

HTh	TTh	Th	H	T	O
					

HTh	TTh	Th	H	T	O
					

HTh	TTh	Th	H	T	O
					



Have a think

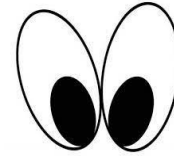
Maths Meeting- Weds Key skills



Times tables

Let's revise the x 8 tables....

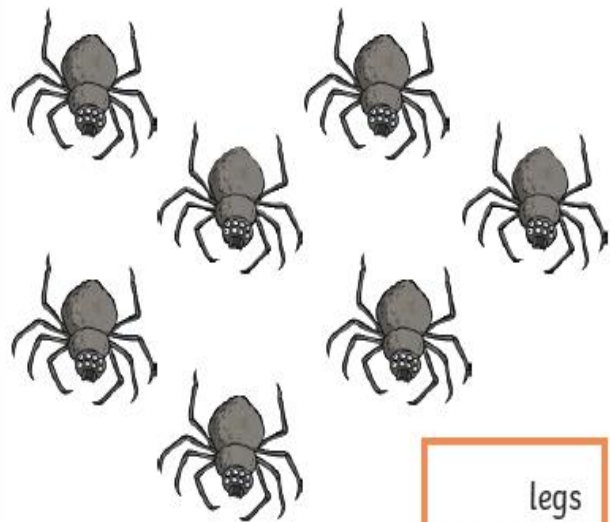
<https://www.youtube.com/watch?v=kWZU6jLdL0M>



Now write them down as
quickly as you can on your
whiteboards!

8 Times Table Maths Mastery Mat

How many legs are there altogether?



legs

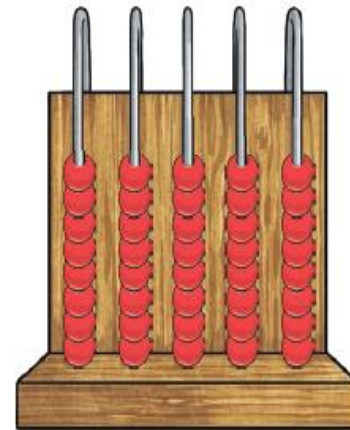
A bottle contains 800ml of juice.

How many millilitres of juice are there in 6 bottles?

ml



Complete the calculation to match the image.



$$\square \times \square = \square$$

Circle the **correct** calculations.

Find $\square = 63$

$$24 \div 3 = 8$$

$$32 = 4 \times 8$$

$$96 \div 8 = 11$$

$$9 \times 8 = 72$$

$$8 = 40 \div 4$$

$$8 = 0 \times 8$$

$$16 \div 2 = 8$$

Explain the mistake.

$$8 = 4 \div 32$$



Draw an array to match this calculation.

$$8 \times 11 = \square$$

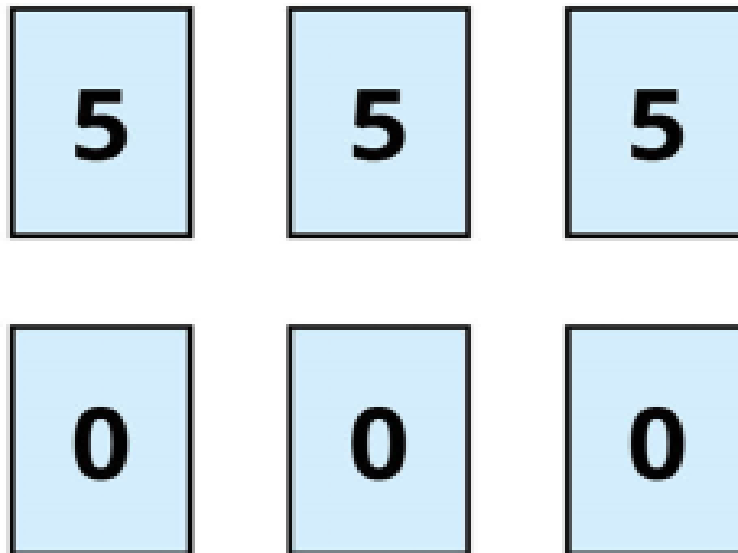
On whiteboards

Thurs 21.9.23

LO: To partition numbers to 1,000, 000

Use the digit cards to make as many 6-digit numbers as you can.

**DO NOW-
whiteboards**

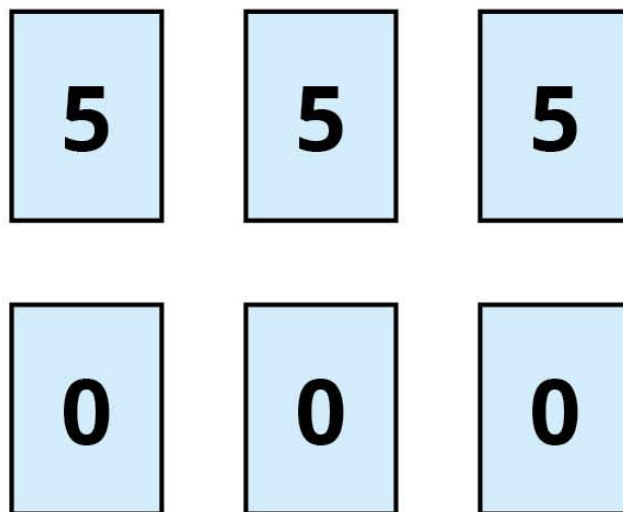


What is the greatest number you can make?

What is the smallest number you can make?

What is the difference between the greatest and smallest numbers?

Use the digit cards to make as many 6-digit numbers as you can.



What is the greatest number you can make?

What is the smallest number you can make?

What is the difference between the greatest and smallest numbers?

Block Place Value

Key vocabulary

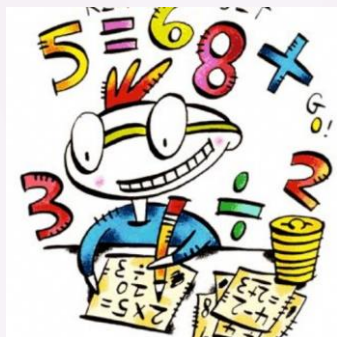
Roman Numerals, number system, place holder, one, ten, hundred, thousand, ten thousand, hundred thousand, millions, compare, order, rounding

	WT	EX	S
Roman numerals to 1000			
Numbers to 10,000			
Numbers to 100,000			
Numbers to 1,000,000			
Read and write numbers to 1,000,000			
Powers of 10			
10/100/1000/10,000/100,000 more or less			
Partition numbers to 1,000,000			
Number line to 1,000,000			
Compare and order numbers to 100,000			
Compare and orders numbers to 1,000,000			
Round to the nearest 10, 100 or 1000			
Round within 100,000			
Round within 1,000,000			

Stem sentences

- The letter — represents the number —
- I know is greater than because ...
- The value of the — in — is
- The column before/after the — column is the — column.
- 10 — can be exchanged for 1 —
- 1 — can be exchanged for —
- The number before/after the comma is — This part of the number is said/written as —
- The whole of the number is said/written as —

Maths Three Repeating Golden Threads



Mastery

Pupils acquire a deep, long-term, secure adaptable understanding

Fluency

Quick and. efficient recall of facts and procedures

Application

The use of maths everyday in the real world, outside the classroom.



White Rose
MATHS

Crucial Vocab...

partition
place value
one million

partition
place value
one million

partition
place value
one million

partition
place value
one million

partition
place value
one million

partition
place value
one million

partition
place value
one million

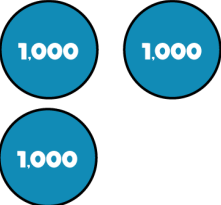
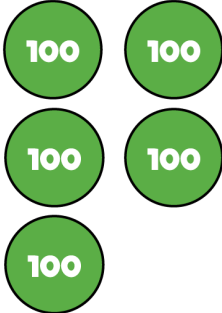
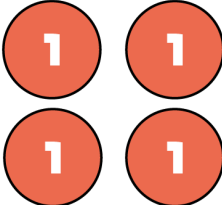
partition
place value
one million

partition
place value
one million

Thurs

Recap...

1) What number is represented?

Th	H	T	O
			

2) How many tens are there in 100?

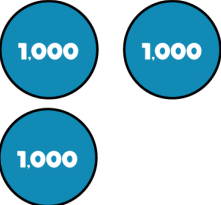
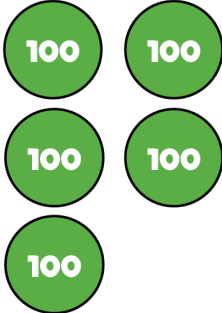
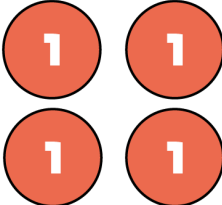
How many tens are there in 200?

How many tens are there in 400?

How many tens are there in 420?

How many hundreds are there in 4,200?

1) What number is represented? 3,524

Th	H	T	O
			

2) How many tens are there in 100? 10

How many tens are there in 200? 20

How many tens are there in 400? 40

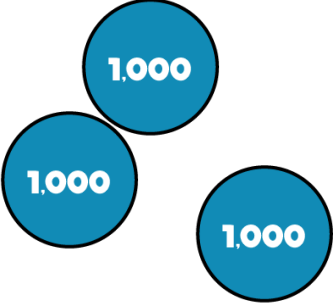
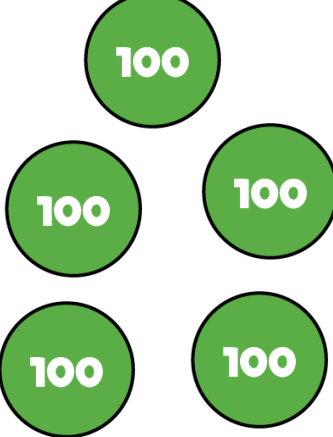
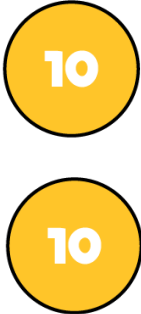
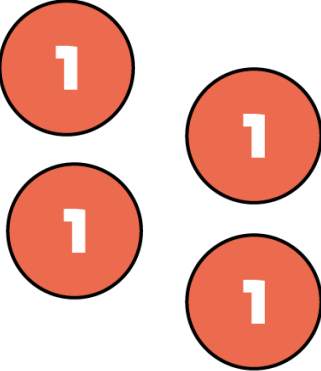
How many tens are there in 420? 42

How many hundreds are there in 4,200? 42



Let's learn

Get ready for today's
new learning.

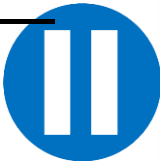
Th	H	T	O
			

3,524 is equal to 3 thousands, 5 hundreds,
2 tens and 4 ones.

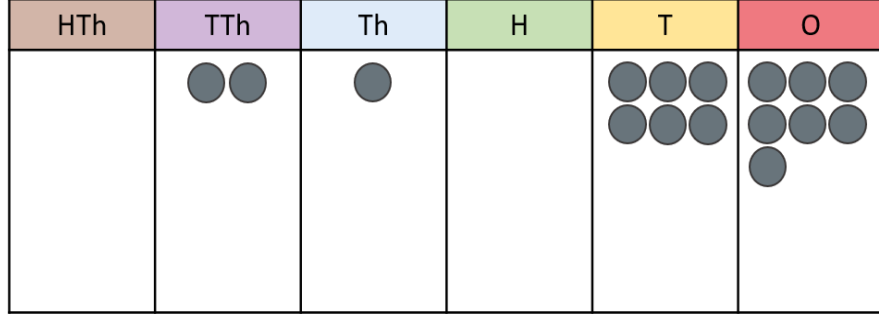
HTh	TTh	Th	H	T	O
	● ●	●		● ● ● ● ● ●	● ● ● ● ● ● ●

21,067 is equal to 2 ten-thousands, 1 thousand, 0 hundreds, 6 tens and 7 ones.

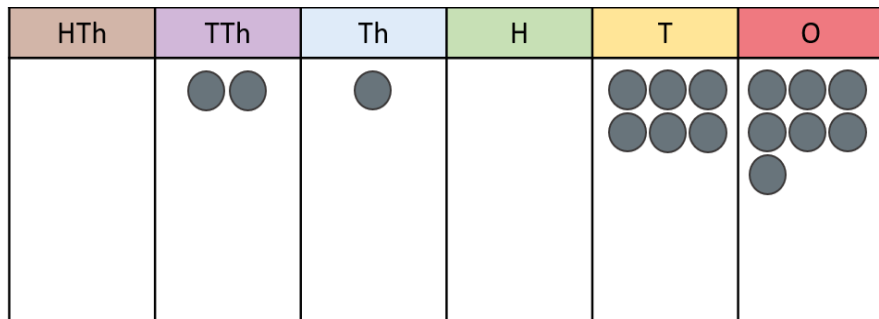
$$21,067 = \underline{20,000} + \underline{1,000} + \underline{60} + \underline{7}$$

Have a think 

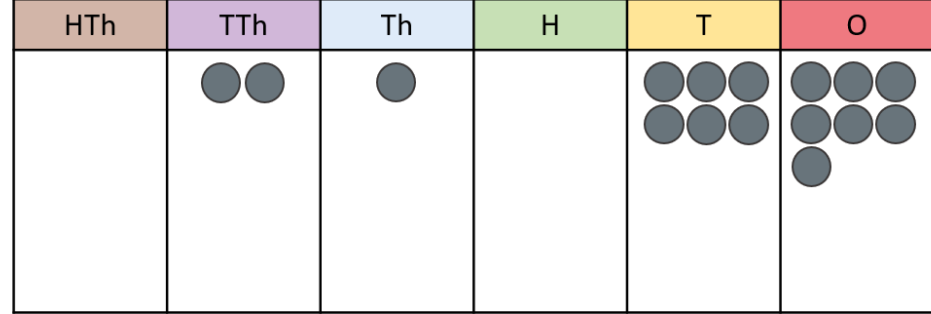




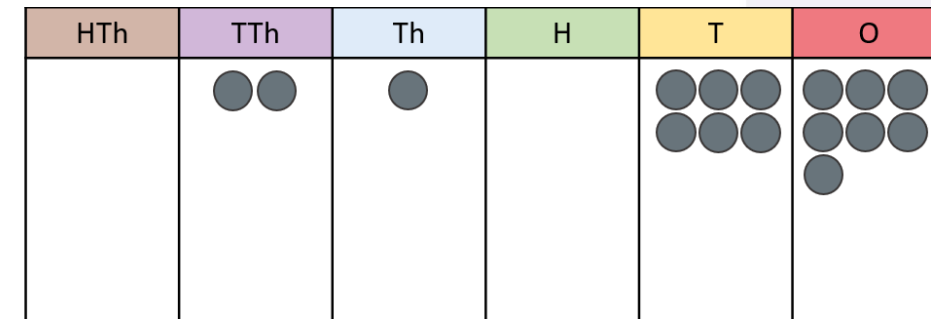
_____ is equal to ____ ten-thousands, ____ thousand,
____ hundreds, ____ tens and ____ ones.



_____ is equal to ____ ten-thousands, ____ thousand,
____ hundreds, ____ tens and ____ ones.



_____ is equal to ____ ten-thousands, ____ thousand,
____ hundreds, ____ tens and ____ ones.



_____ is equal to ____ ten-thousands, ____ thousand,
____ hundreds, ____ tens and ____ ones.

620,913

HTh	TTh	Th	H	T	O

What is the value of the first digit? 600,000

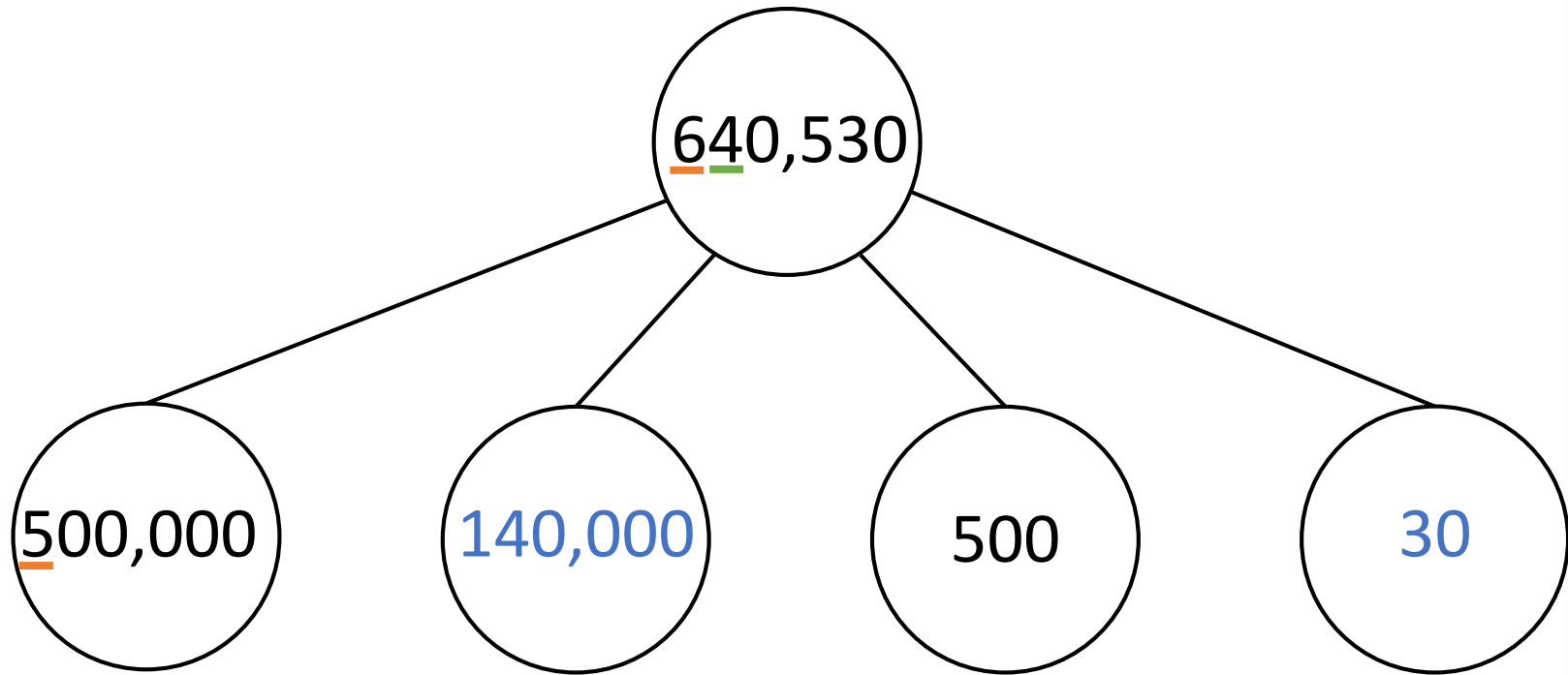
What is the value the digit 9? 900

What is the value of the third digit? 0

Have a think

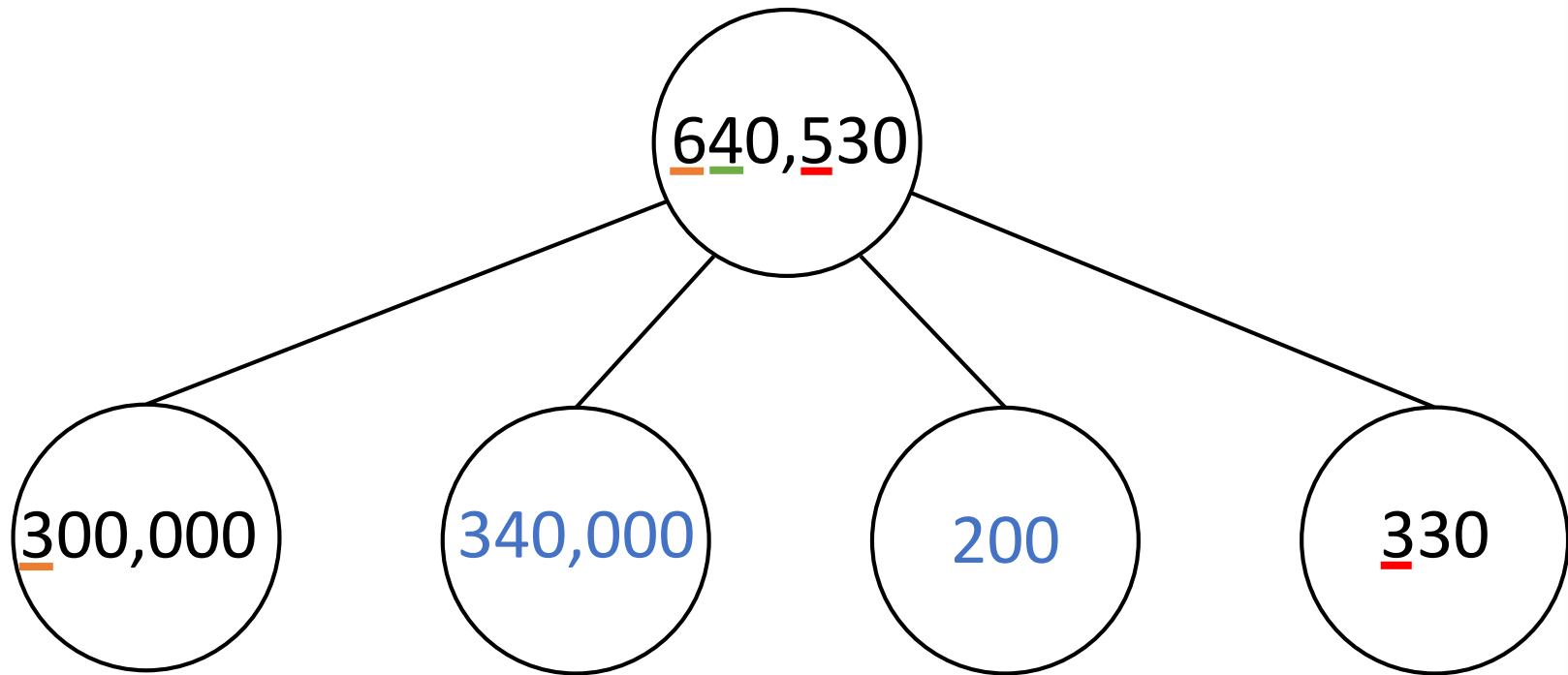


Complete the part-whole model.



$$100,000 + 40,000$$

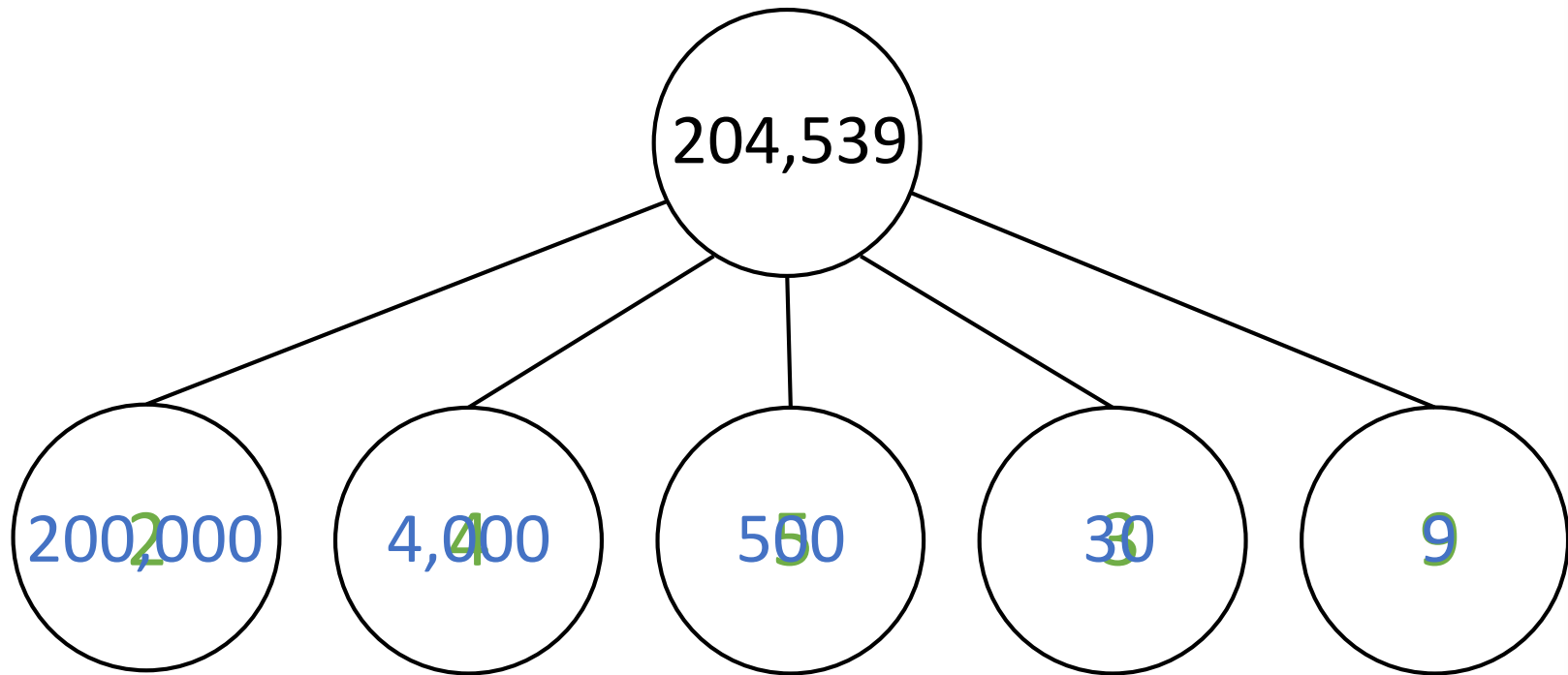
Complete the part-whole model.



$$300,000 + 40,000$$

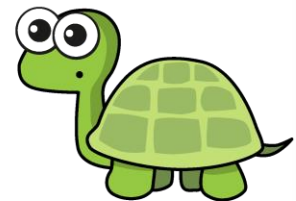
Have a think 

Complete the part-whole model.



Do you agree with Tiny?

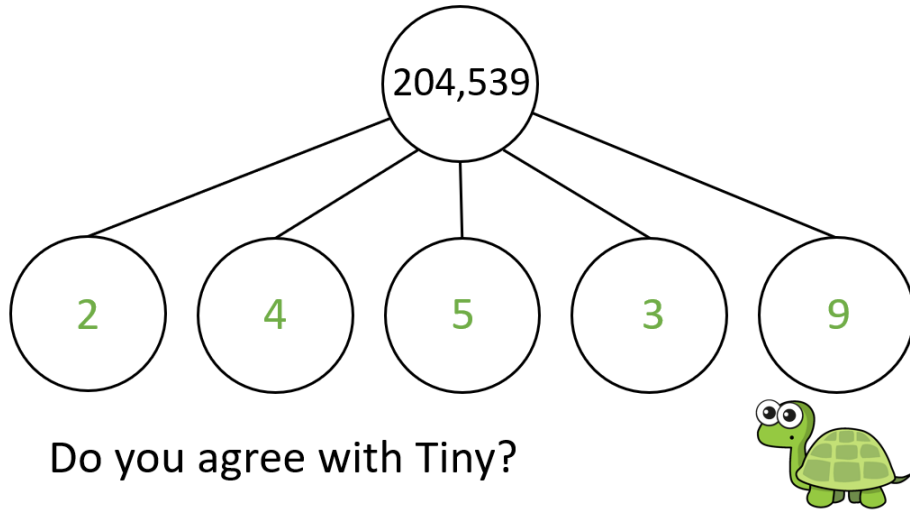
No, Tiny has not considered the place value of each digit.



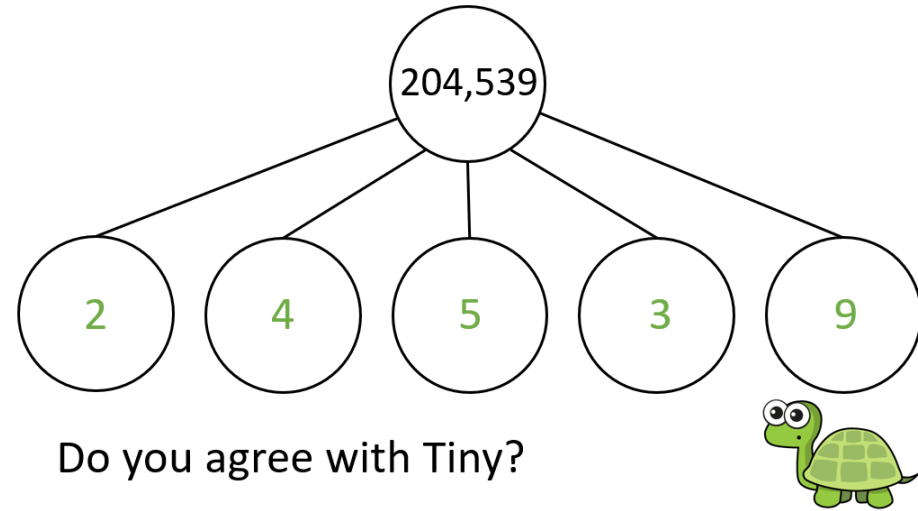
Have a think



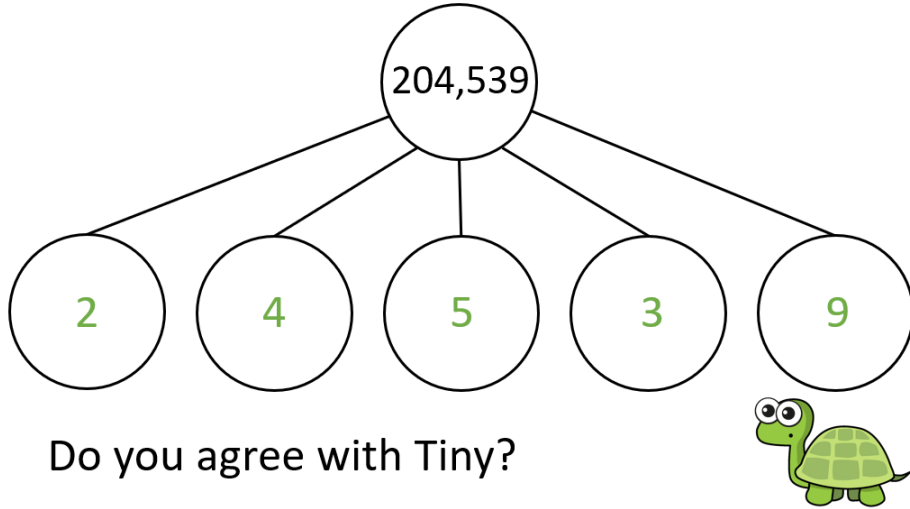
Complete the part-whole model.



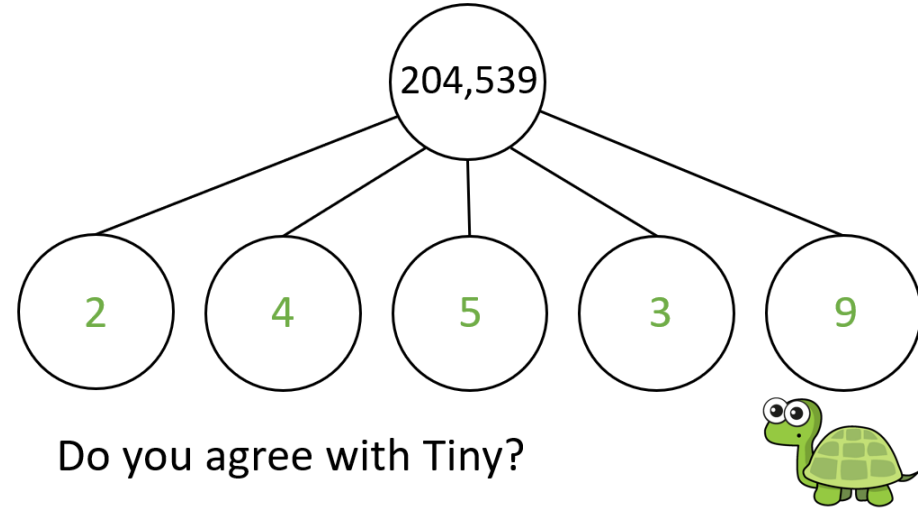
Complete the part-whole model.



Complete the part-whole model.



Complete the part-whole model.



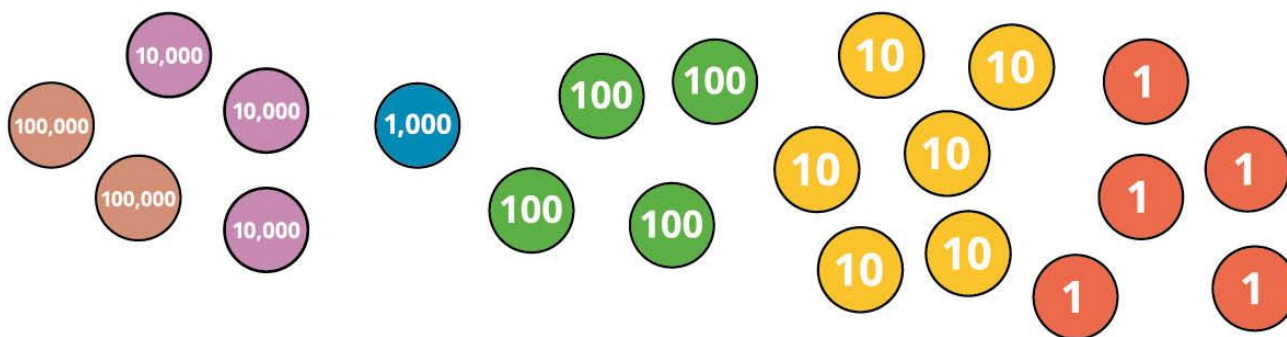


Your turn



Partition numbers to 1,000,000

1 Complete the number sentence to partition the number.



$$231,465 = 200,000 + \boxed{} + \boxed{} + \boxed{} + \boxed{} + \boxed{}$$



2

Complete the number sentence to partition the number.

HTh	TTh	Th	H	T	O
					

$$\boxed{} + \boxed{} + \boxed{} + \boxed{} + \boxed{} = \boxed{}$$

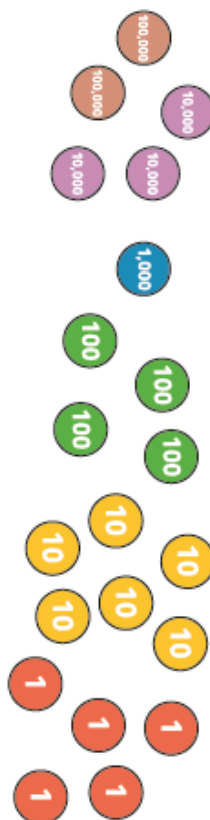


$$231,465 = 200,000 + \boxed{} + \boxed{} + \boxed{} + \boxed{} + \boxed{}$$

HTh	TTh	Th	H	T	O
					

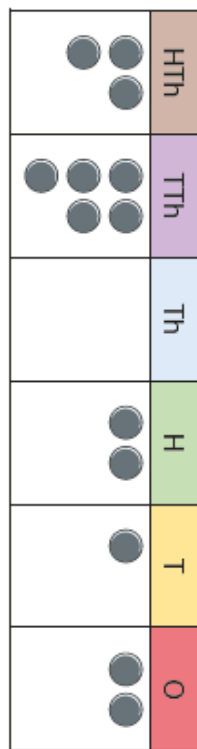
$$\square + \square + \square + \square + \square = \square$$

Complete the number sentence to partition the number.



$$231,465 = 200,000 + \boxed{} + \boxed{} + \boxed{} + \boxed{}$$

Complete the number sentence to partition the number.



$$\begin{array}{c} \square \\ + \\ \square \\ + \\ \square \\ + \\ \square \\ + \\ \square \\ || \\ \square \end{array}$$

- 1 Complete the number sentence to partition the number.



$$231,465 = 200,000 + \boxed{} + \boxed{} + \boxed{} + \boxed{} + \boxed{}$$

- 2 Complete the number sentence to partition the number.

HTh	TTh	Th	H	T	O

$$\boxed{} + \boxed{} + \boxed{} + \boxed{} + \boxed{} = \boxed{}$$

- 4 Partition each number into its parts.

The first one has been done for you.

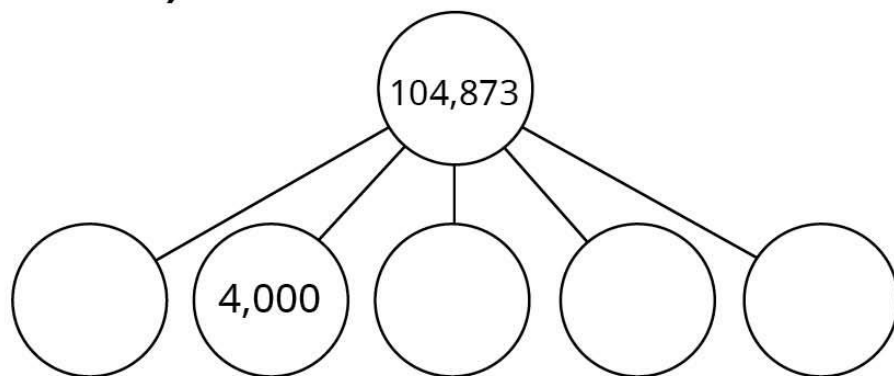
a) $32,607 = 30,000 + 2,000 + 600 + 7$

b) $2,915 = \underline{\hspace{2cm}}$

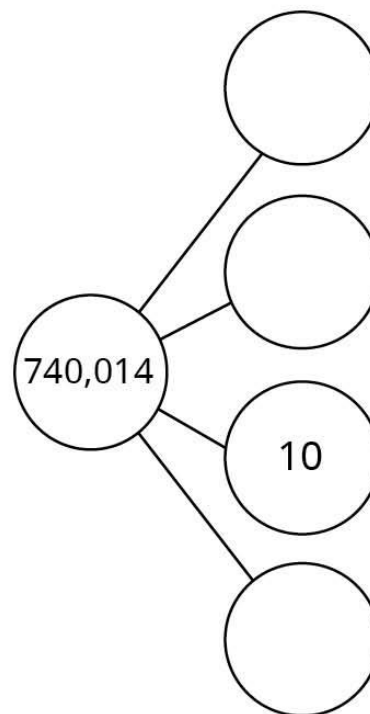
c) $30,316 = \underline{\hspace{2cm}}$

3 Complete the part-whole models.

a)



b)



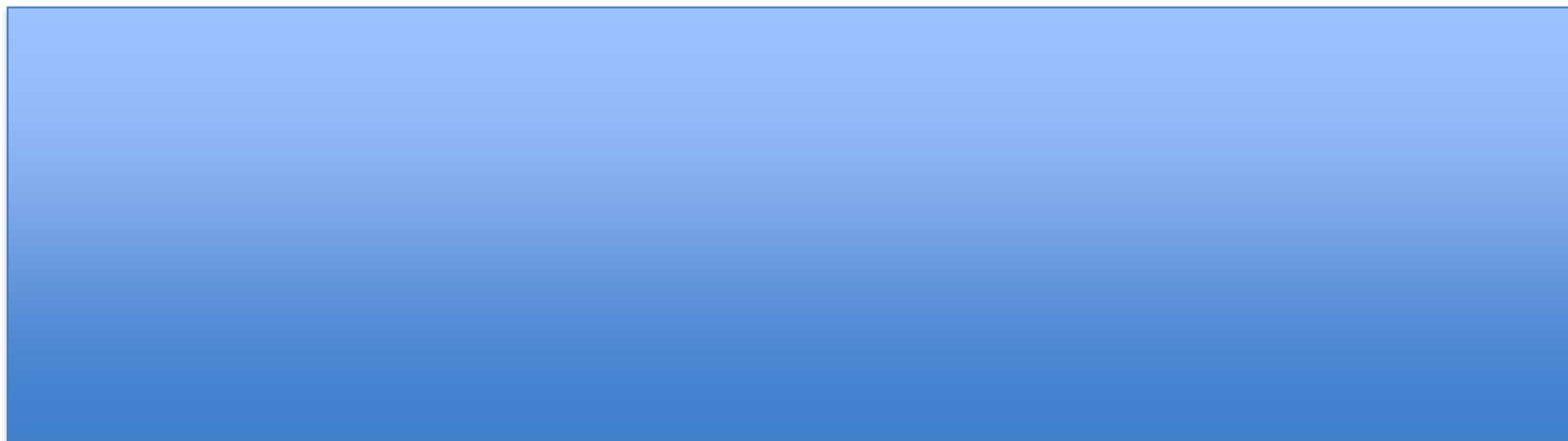
4 Partition each number into its parts.

The first one has been done for you.

a) $32,607 = \underline{30,000 + 2,000 + 600 + 7}$

b) $2,915 = \underline{\hspace{10cm}}$

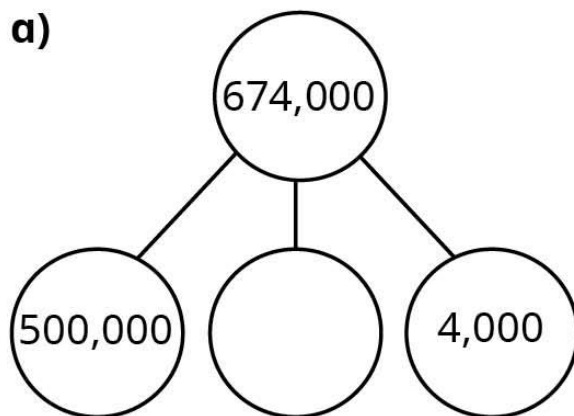
c) $30,316 = \underline{\hspace{10cm}}$



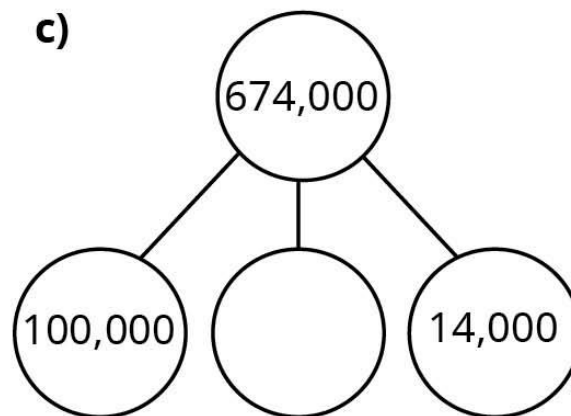
6

Complete the part-whole models showing 674,000 partitioned in different ways.

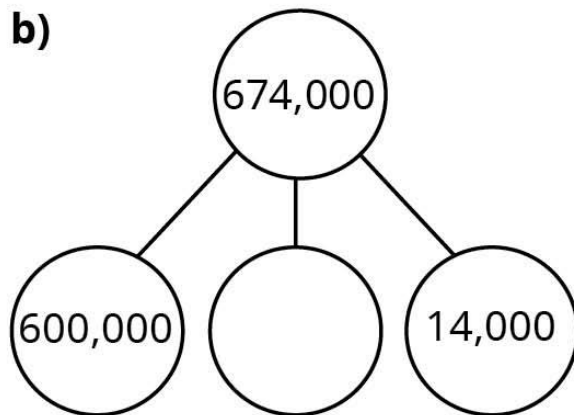
a)



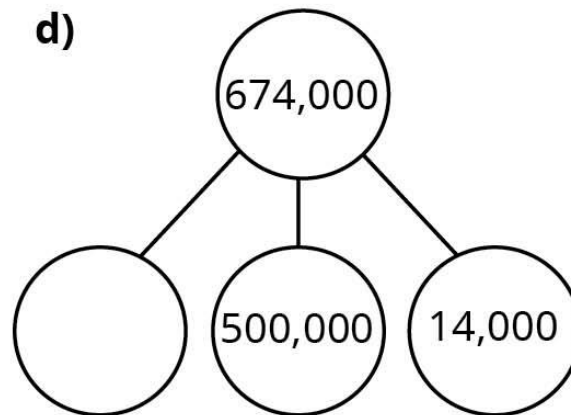
c)



b)



d)



7 Complete the number sentences.

a) $125,684 = 100,000 + 20,000 + 4,000 + \boxed{} + 84$

b) $125,684 = 110,000 + \boxed{} + 600 + \boxed{}$

c) $597,203 = 203 + 400,000 + \boxed{} + \boxed{}$

d) $597,203 = 500,000 + 10,000 + \boxed{} + 200 + \boxed{}$

Is there more than one way of completing each number sentence?





8

Partition 349,251 in three different ways.



Which children are describing the same numbers?



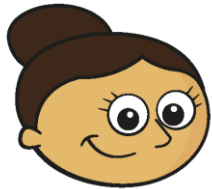
Teddy

My number is equal to
 $2,000 + 2,200 + 70 + 5$



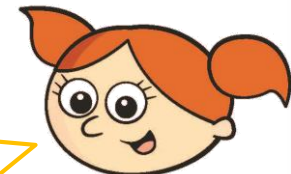
Amir

My number has 2 thousands, 4
hundreds, 7 tens and 5 ones.



Dora

My number is equal to $50 + 25 + 1,000 + 1,400$



Alex

My number is equal to 42
hundreds, 6 tens and 15 ones

Have a think



Which children are describing the same numbers?



Teddy

My number is equal to
2,000 + 2,200 + 70 + 5

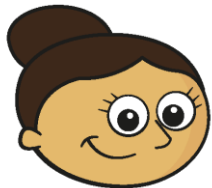
4,275

2,475

My number has 2 thousands, 4
hundreds, 7 tens and 5 ones.



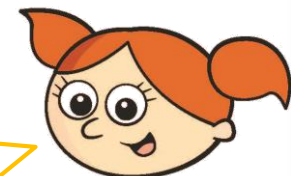
Amir



Dora

My number is equal to 50
+ 25 + 1,000 + 1,400

2,400



Alex

4,200

My number is equal to 42
hundreds, 6 tens and 15 ones

Teddy and Alex

Amir and Dora

Maths Meeting- Thurs Key skills

Addition recap



Calculate the missing numbers using formal written methods:

$$5432 + \boxed{} 3749$$

$$12\,349 + \boxed{} 17\,878$$

$$6217 - \boxed{} 2488$$

$$8962 = \boxed{} 421$$

Show answers

A chocolate factory has 16 480 boxes of chocolates. They send 8361 boxes to a shop to be sold. They then make another 9621 boxes.

How many boxes do they now have altogether?



$$\begin{array}{r}
 \overset{1}{\cancel{1}}6 \ 4 \ \overset{7}{\cancel{8}} \ \overset{1}{\cancel{0}} \\
 - \quad 8 \ 3 \ 6 \ 1 \\
 \hline
 8 \ 1 \ 1 \ 9
 \end{array}$$

$$\begin{array}{r}
 9 \ 6 \ 2 \ 1 \\
 + \quad 8 \ 1 \ 1 \ 9 \\
 \hline
 1 \ 7 \ 7 \ 4 \ 0 \\
 \hline
 1
 \end{array}$$

Show answers