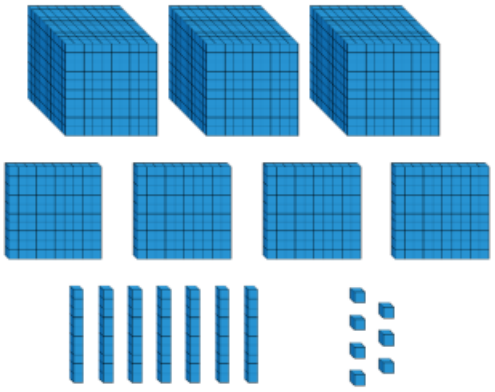
12.09.2021

Place Value up to 10,000 (4-digits)

Complete the sentences.

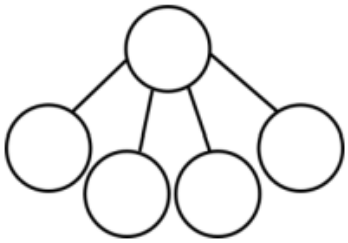


There are _____ thousands, _____ hundreds, _____ tens and _____ ones.

The number is _____ .

___ + ___ + ___ + ___ = ___

Complete the part-whole model for the number represented.



What is the value of the underlined digit in each number?

6,9<u>8</u>3	<u>9</u>,021	<u>7</u>89	6,57<u>0</u>
_____	_____	_____	_____

Create four 4-digit numbers to fit the following rules:

- The tens digit is 3
- The hundreds digit is two more than the ones digit
- The four digits have a total of 12

12.09.2021

Place Value up to 10,000 (4-digits) - Challenge

Use the clues to find the missing digits.

□ □ □ □

The thousands and tens digit multiply together to make 36

The hundreds and tens digit have a digit total of 9

The ones digit is double the thousands digit.

The whole number has a digit total of 21

Rosie counts forwards and backwards in 10s from 317

Circle the numbers Rosie will count.

427	997	−7
1,666	3,210	5,627
−23	7	−3

Explain why Rosie will not say the other numbers.

Dora has made five numbers, using the digits 1, 2, 3 and 4

She has changed each number into a letter.

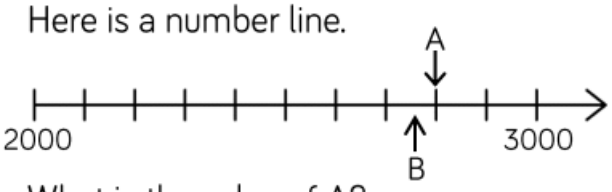
Her numbers are

aabcd
acdbc
dcaba
cdadc
bdaab

Here are three clues to work out her numbers:

- The first number in her list is the greatest number.
- The digits in the fourth number total 12
- The third number in the list is the smallest number.

Here is a number line.



What is the value of A?

B is 40 less than A.
What is the value of B?

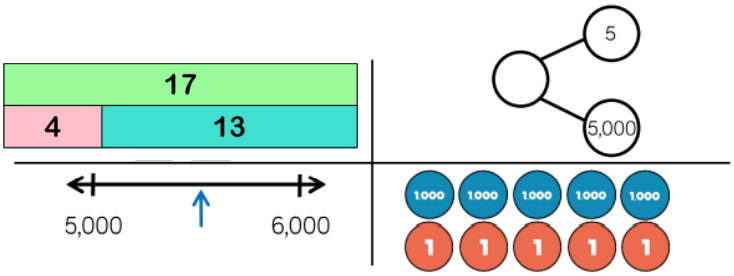
C is 500 less than B.
Add C to the number line.

13.09.2021

Place Value up to 100,000 (5-digits)

	Add 10	Add 100	Add 1,000
2,506			
7,999			
		6,070	

Here are the representations you'll need:



Complete the grid to show the same number represented in different ways:

Tommy says he can order the following numbers by only looking at the first three digits.

12,516 12,832 12,679 12,538 12,794

Is he correct?

Explain your answer.

Bar model partition into 3 parts (not by place value)

Part-Whole Model (partition by place value)

65,048

Number line showing 60,000 to 70,000

Place Value Counters

13.09.2021

Place value up to 100,000 (5-digits) - Challenge

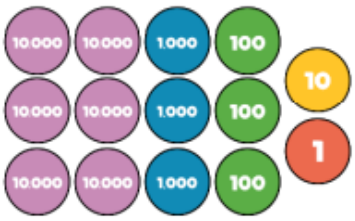
Here are three ways of partitioning 27,650

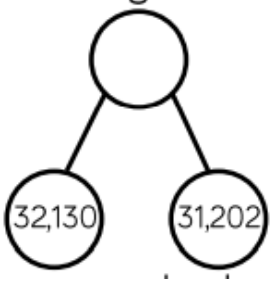
27 thousands and 650 ones
27 thousands, 5 hundreds and 150 ones
27 thousands and 65 tens

Write three more ways

1. _____
2. _____
3. _____

Put these numbers in ascending order.



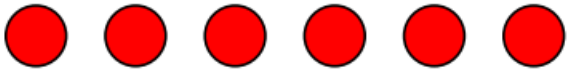


10,000s	1,000s	100s	10s	1s
6	3	3	2	0

Put the number cards in order of size.

13,010	13,100	13,011	13,110	13,111

Use six counters to make five different 5-digit numbers.



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

Order your numbers from greatest to smallest.

Select five digits from 0 to 9.

Make the greatest number possible and the smallest number possible.

How do you know which is the greatest and which is the smallest?

15.09.2021

Place Value up to 1,000,000 (6-digits)

Number	10,000 more	20,000 more	30,000 more	100,000 more
678 900	688 900	698 900		
589 000				
45 987				

15.09.2021

Place Value up to 1,000,000 (6-digits)

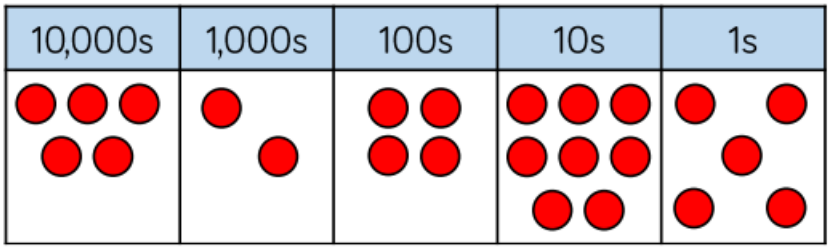
Complete the missing numbers.

59,000 = 50,000 + _____

_____ = 30,000 + 1,700 + 230

75,480 = _____ + 300 + _____

A number is shown in the place value grid.



Write the number in figures and in words.

- Alex adds 10 to this number
- Tommy adds 100 to this number
- Eva adds 1,000 to this number

Write each of their new numbers in figures and in words.

Original number:

_____

Alex's number:

_____

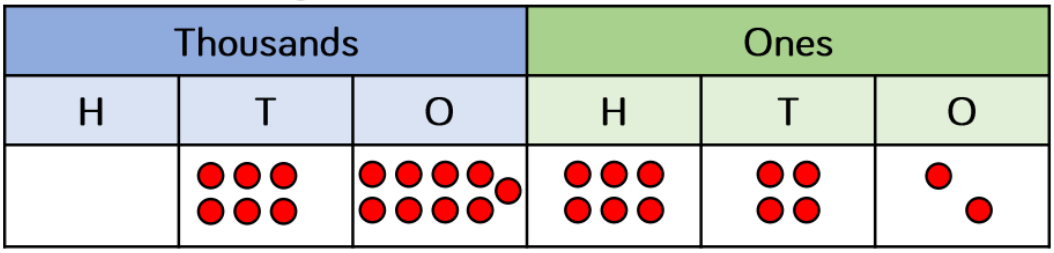
Tommy's number:

_____

Eva's number:

_____

Eva has the following number.



She adds 4 counters to the hundreds column.

What is her new number?

15.09.2021

Place Value up to 1,000,000 (6-digits) - Challenge

'Fill in the missing numbers.'

10,000 + 10,000 + 100,000 + 100,000 + 10,000 = ☐

352,000 = ☐ × 100,000 + ☐ × 10,000 + ☐ × 1,000

472,000 = 72,000 + ☐

813,000 = ☐ + 803,000

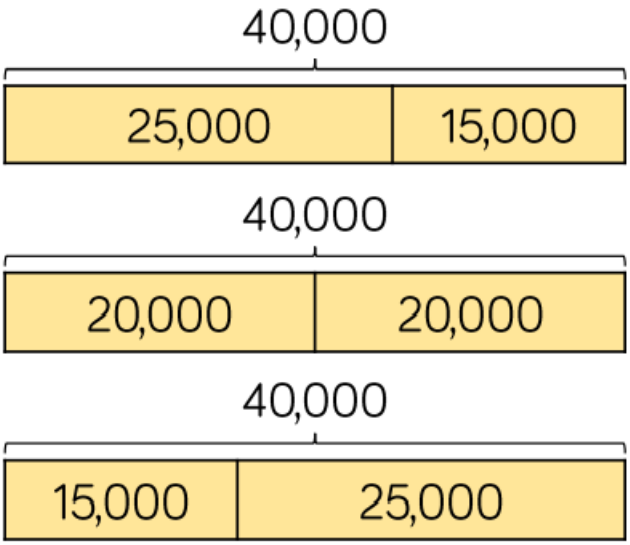
Describe the value of the digit 7 in each of the following numbers. How do you know?

407,338

700,491

25,571

The bar models are showing a pattern.



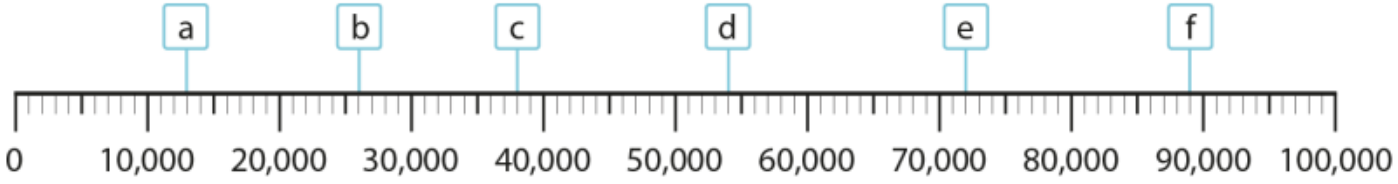
Draw the next three.

Create your own pattern of bar models for a partner to continue.

15.09.2021

Place Value up to 1,000,000 (6-digits)

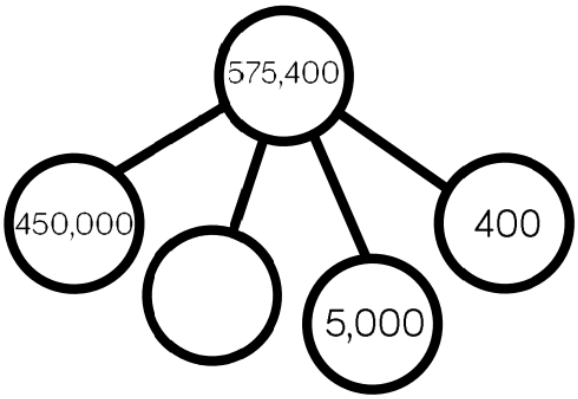
- *'Identify points a–f on this number line.'*

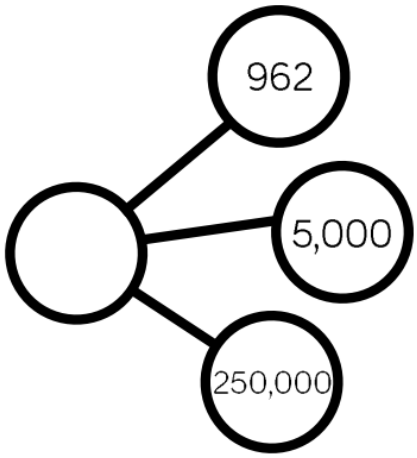


A: _____ C: _____ E: _____

B: _____ D: _____ F: _____

Complete the part-whole models:



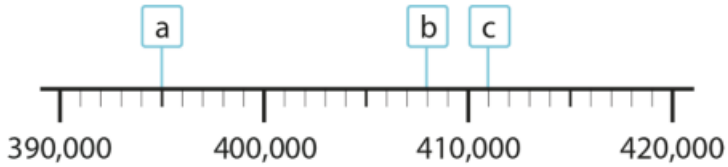


Use this space for your journaling:

16.09.2021

Place Value up to 1,000,000 (6-digits)

''What numbers are shown by a–c?'



A: _____

B: _____

C: _____

'Fill in the missing numbers.'

6,000	7,000,	8,000			
			19,000	18,000	17,000
75,000	85,000	95,000			
325,000			295,000		275,000
384,000	394,000		414,000		
204,000	304,000		504,000		
	707,000			407,000	

16.09.2021

Place Value up to 1,000,000 (6-digits) - Challenge

56×1000

$8{,}000 + 20{,}000$

$3 \times 1{,}000 + 4 \times 10{,}000$

$1{,}000 + 10{,}000 + 10{,}000 + 10{,}000 + 1{,}000 + 10{,}000$

'Demi is counting forwards in steps of 50,000. One of the numbers she says is 175,000. Which of these other numbers will she say?'

180,000 750,000 225,000 975,000 300,000

Using the digit cards 0 to 9, create three different 5-digit numbers that fit the following clues:

- The digit in the hundreds column and the ones column have a difference of 2
- The digit in the hundreds column and the ten thousands column has a difference of 2
- The sum of all the digits totals 19