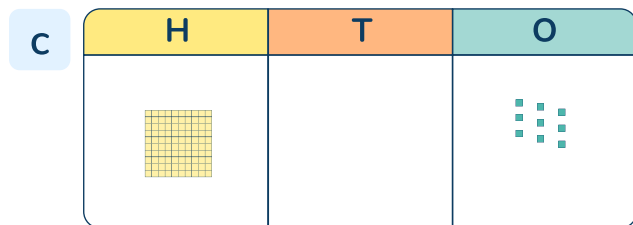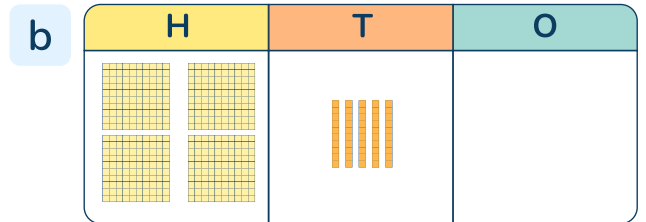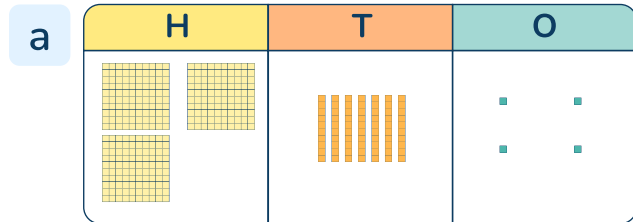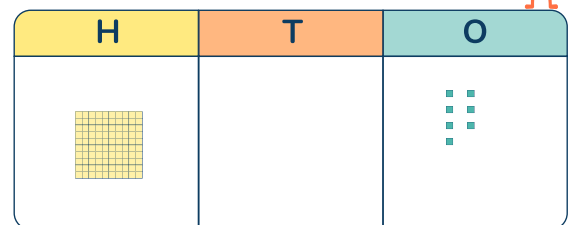# To know how to partition numbers to 1,000 into hundreds, tens and ones

1 Complete the sentences to describe each number.

There are ………. hundreds, ………. tens and ………. ones. The number is ………. .

………. = ………. + ………. + ……….

a

H	T	O

b

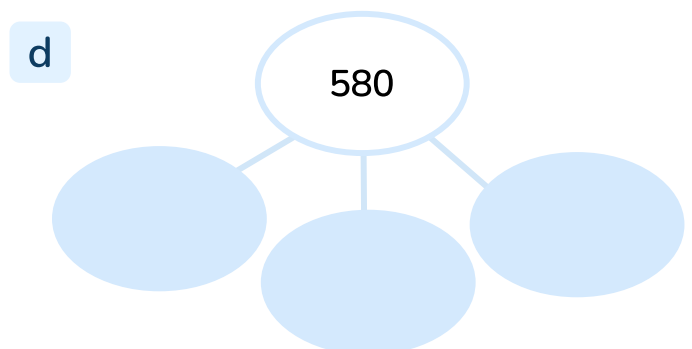| H	T	O

c

H	T	O

d The Mathling says this shows 17. Do you agree?

H	T	O

2 Complete the part whole models and write a related number sentence.

………. = ………. + ………. + ………

a

b

c

407

d

580
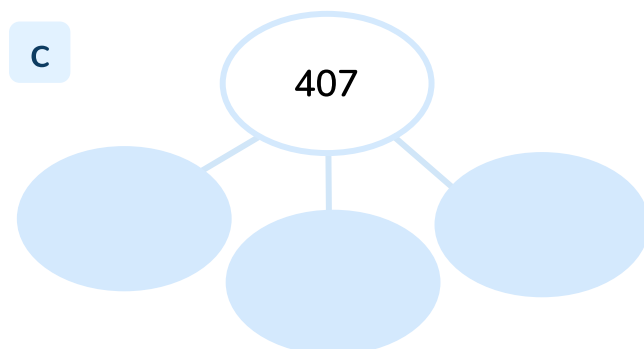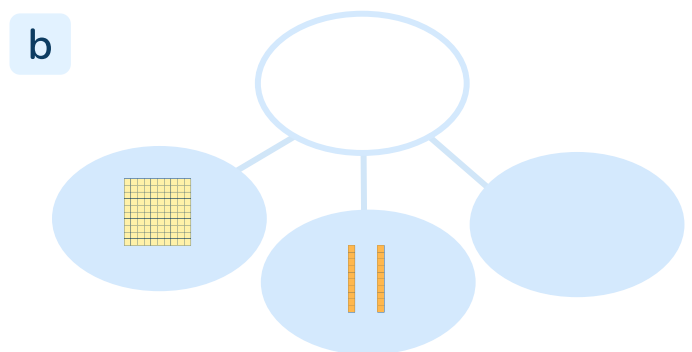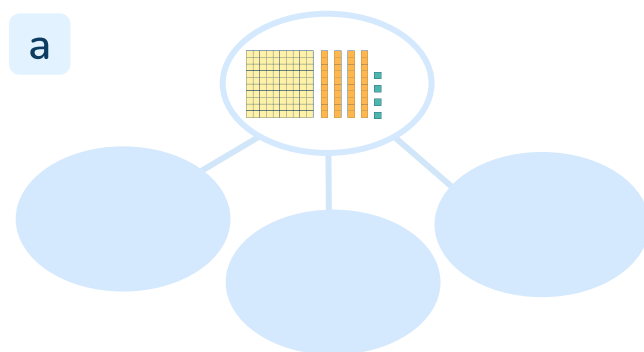
To know how to partition numbers to 1,000 into hundreds, tens and ones

3   The Mathlings have each made a 3-digit number using base 10 equipment.

We each used 10 pieces of Base 10 equipment.

Together, we made 6 different 3-digit numbers.

Four of our Base 10 pieces were tens.
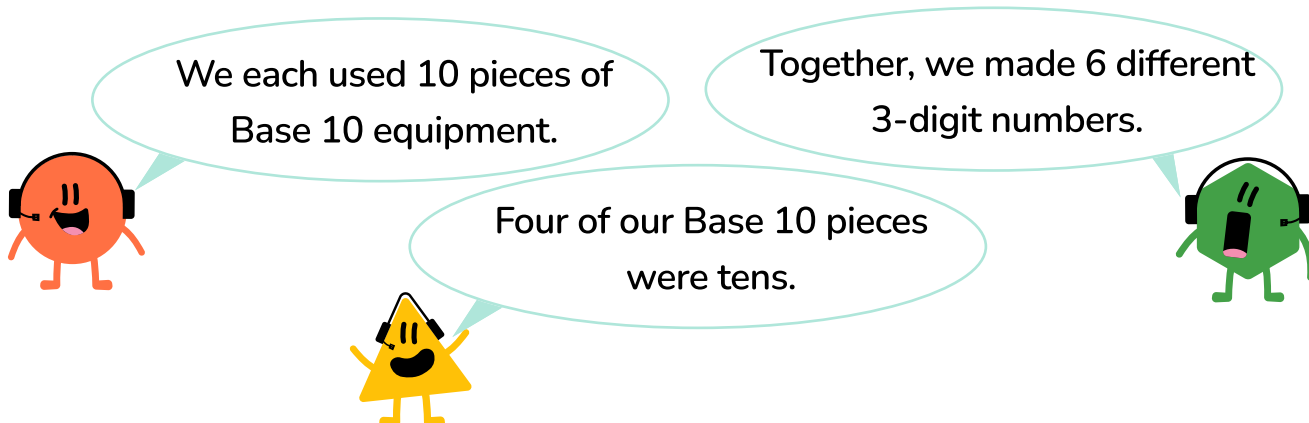
a   Which different six 3-digit numbers did the Mathlings make?

b   Partition the numbers the made and write a number sentence for each.

c   What is the same and different about the numbers?

To know how to partition numbers to 1,000 into hundreds, tens and ones

Question Number	Question	Answer
1	a to c) Complete the sentences to describe each number. d) Do you agree with the Mathling?	a) There are 3 hundreds, 7 tens and 4 ones. The number is 374. 374 = 300 + 70 + 4 b) There are 4 hundreds, 5 tens and 0 ones. The number is 450. 450 = 400 + 50 or 450 = 400 + 50 + 0 c) There are 2 hundreds, 0 tens and 9 ones. The number is 209. 209 = 200 + 9 or 209 = 200 + 0 + 9 d) The Mathling is not correct. There is 1 hundred, 0 tens and 7 ones. The number is 107. 107 = 100 + 7 or 107 = 100 + 0 + 7
2	a to d) Complete the part whole models and write a related number sentence.	a) Parts show 100, 40, 4. 144 = 100 + 30 + 5 b) Whole shows 120. 120 = 100 + 20 + 0 c) Parts show 400, 0, 7. 407 = 400 + 0 + 7 d) Parts show 500, 80, 0. 580 = 500 + 80 + 0
3	a to c) The Mathlings have each made a 3-digit number using base 10 equipment.	a) 640, 541, 442, 343, 244, 145 b) 640 = 600 + 40, 541 = 500 + 40 + 1, 442 = 400 + 40 + 2, 343 = 300 + 40 + 3, 244 = 200 + 40 + 4, 145 = 100 + 40 + 5 c) All the numbers have 4 tens but they have different numbers of ones and hundreds. Only one of the numbers uses zero as a place holder.