

Name:

Date:

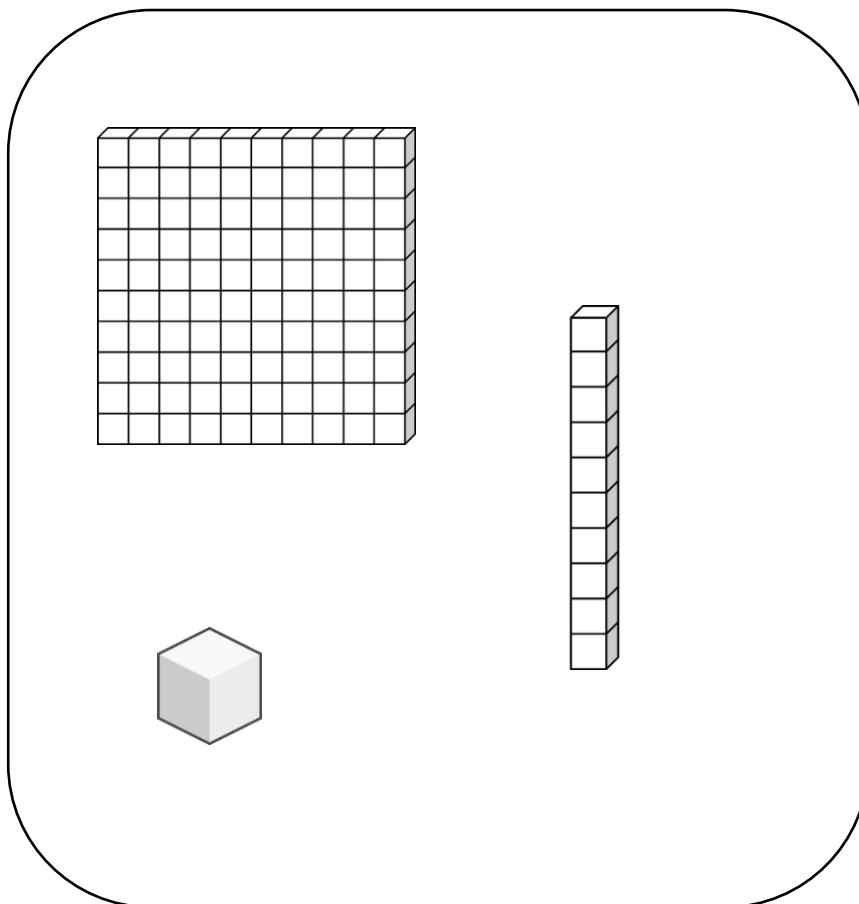
School:

Year:

# Numeracy

## Number Group

Yellow Course

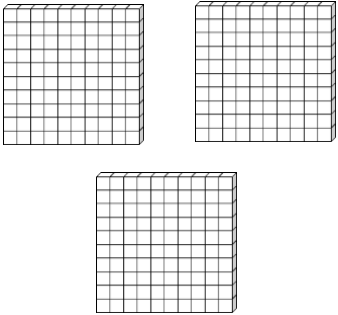
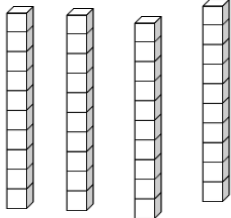
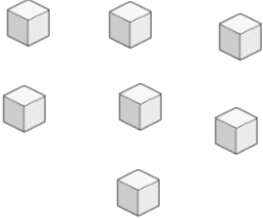


### Number Placement

## What do you know about the value of each digit in a number?

### Part A: Place value charts.

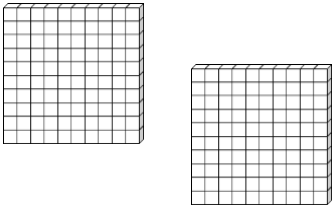
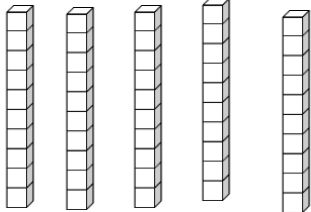
A 3-digit number is made up of hundreds, tens and ones.

Hundreds	Tens	Ones
		

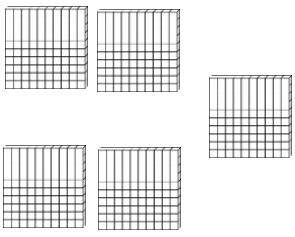
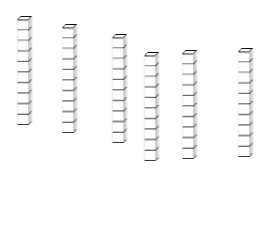
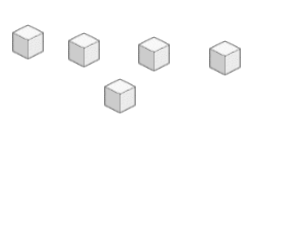
What is the value of the number shown on the place value chart?

Why is it important to put the values in the correct places in the place value chart?

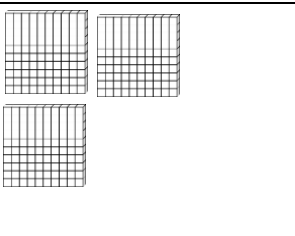
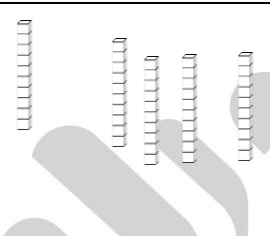
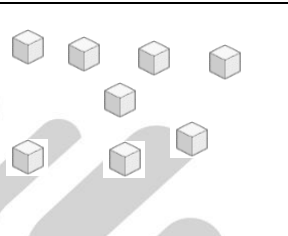
Complete the ones column to show the number 256.

Hundreds	Tens	Ones
		Empty space for student to add one blocks

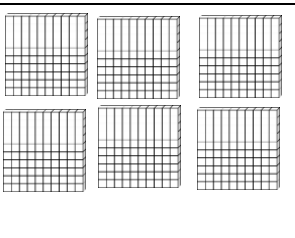
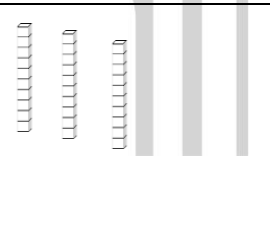
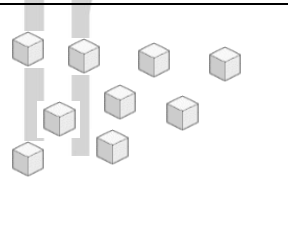
Exercise 1: What is the value of the number shown in each place value chart?

Hundreds	Tens	Ones
		

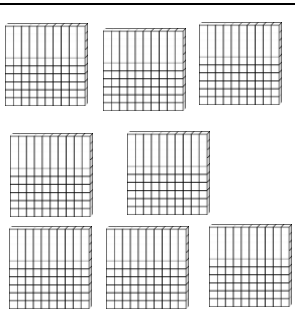
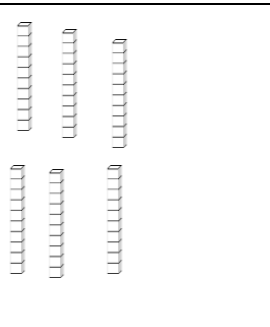
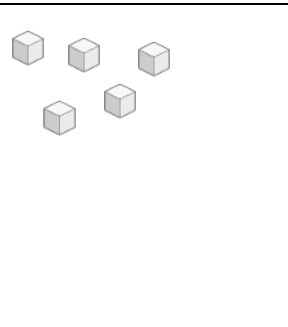
Number:

Hundreds	Tens	Ones
		


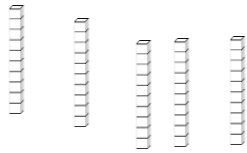

Number:

Hundreds	Tens	Ones
		

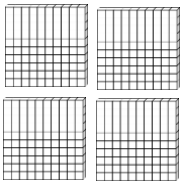
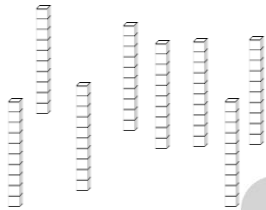
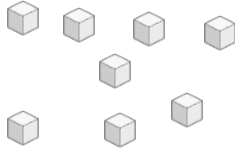
Number:

Hundreds	Tens	Ones
		

Number:

Hundreds	Tens	Ones
		

Number:

Hundreds	Tens	Ones
		

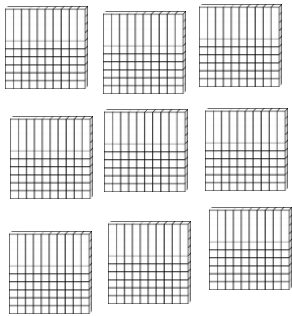
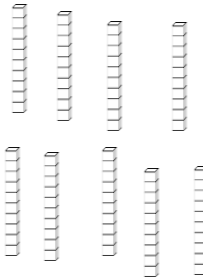

Number:

Hundreds	Tens	Ones
		

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Number:

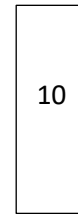
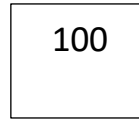
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Hundreds	Tens	Ones
		

Number:

Exercise 2:

Draw the correct rectangles for 100, 10, or 1 in the place value charts to show each number.



Hundreds	Tens	Ones

Number:  
**376**

Hundreds	Tens	Ones

Number:  
**376**

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Hundreds	Tens	Ones

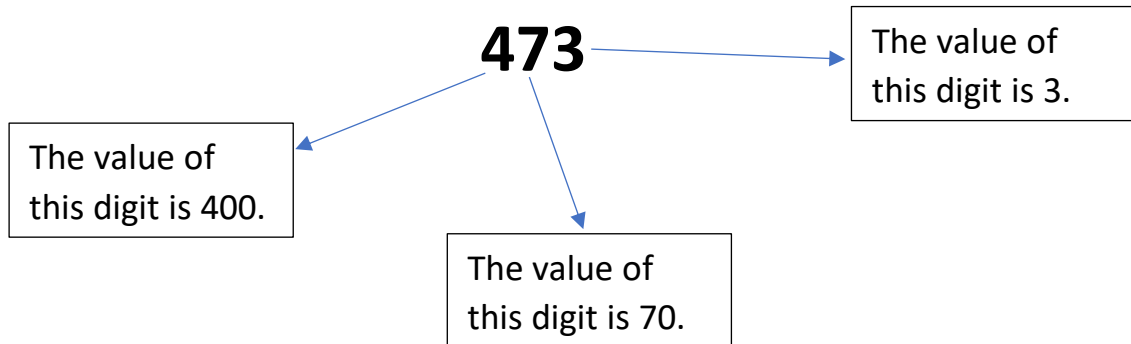
Number:  
**492**

Hundreds	Tens	Ones

Number:  
**658**

## Part B: The value of each digit.

When writing any number, it is important that you know the value of each digit.



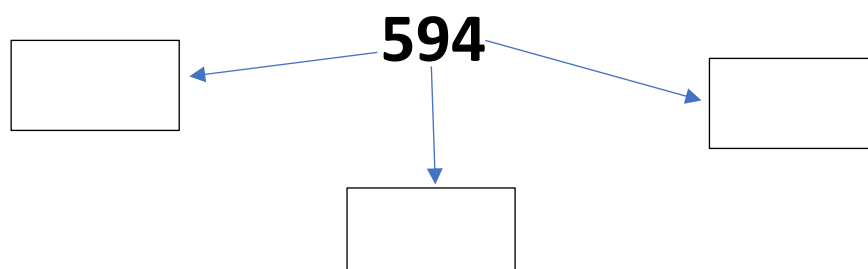
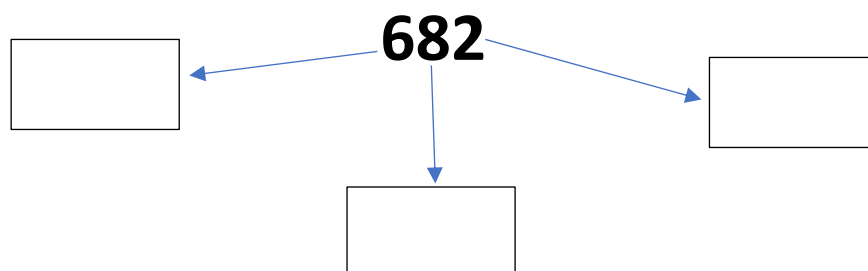
Why do you think it is important to know the value of each digit?



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Can you...



Exercise 1: Write the value of the underlined digit. For example:

7 <u>3</u> 1	30
--------------	----

<u>8</u> 41		5 <u>1</u> 8		77 <u>4</u>	
-------------	--	--------------	--	-------------	--

<u>1</u> 27		<u>2</u> 26		59 <u>8</u>	
-------------	--	-------------	--	-------------	--

4 <u>7</u> 2		Seven Springs Education
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<u>6</u> 55		22 <u>1</u>		3 <u>5</u> 2	
-------------	--	-------------	--	--------------	--

<u>7</u> 79		57 <u>4</u>		4 <u>6</u> 6	
-------------	--	-------------	--	--------------	--

<u>2</u> 91		8 <u>9</u> 7		<u>6</u> 39	
-------------	--	--------------	--	-------------	--

Exercise 2: Explain the value of the underlined digit in words for the numbers below.

For example:  $5\underline{8}7 =$  Eight tens.

$74\underline{2} =$  Two ones.

a)  $6\underline{2}9 =$  \_\_\_\_\_

b)  $\underline{3}46 =$  \_\_\_\_\_

c)  $8\underline{3}7 =$  \_\_\_\_\_

d)  $94\underline{5} =$  \_\_\_\_\_

e)  $\underline{1}24 =$  \_\_\_\_\_

f)  $46\underline{3} =$  \_\_\_\_\_

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g)  $5\underline{5}6 =$  \_\_\_\_\_

h)  $\underline{7}23 =$  \_\_\_\_\_

i)  $93\underline{5} =$  \_\_\_\_\_

j)  $4\underline{5}2 =$  \_\_\_\_\_

k)  $\underline{8}17 =$  \_\_\_\_\_

l)  $27\underline{2} =$  \_\_\_\_\_



Exercise 3: Arrange the given digits to make a number which meets the given criteria.

A number between 393 and 402.

**953**

H	T	O

A number between 576 and 593.

**825**

H	T	O



A number between 634 and 650.      A number between 112 and 121.

**864**      **911**

H	T	O	H	T	O

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A number between 927 and 937.

**193**

H	T	O

A number between 798 and 809.

**708**

H	T	O

A number between 552 and 569.

**652**

H	T	O

A number between 249 and 262.

**532**

H	T	O

### Part C: Partitioning 3-digit numbers.

Being able to partition a 3-digit number helps us to see the value of each digit and it may come in useful later in your Numeracy lessons.

We can partition a number like this:

$$682 \longrightarrow 600 + 80 + 2$$

$$493 \longrightarrow 400 + 90 + 3$$

Why do you think the addition symbol is used between each value?

Exercise 1: Have a go at partitioning these numbers in the same way.

a)  $828 =$

b) For workbook samples, contact us at: [school@seven-springs.co.uk](mailto:school@seven-springs.co.uk)

c)  $172 =$

d)  $835 =$

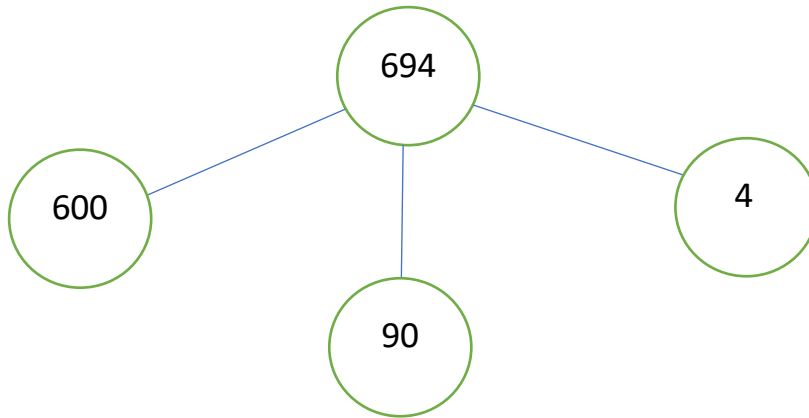
e)  $448 =$

f)  $576 =$

g)  $294 =$

h)  $951 =$

We can also partition numbers using the 'part-whole model':

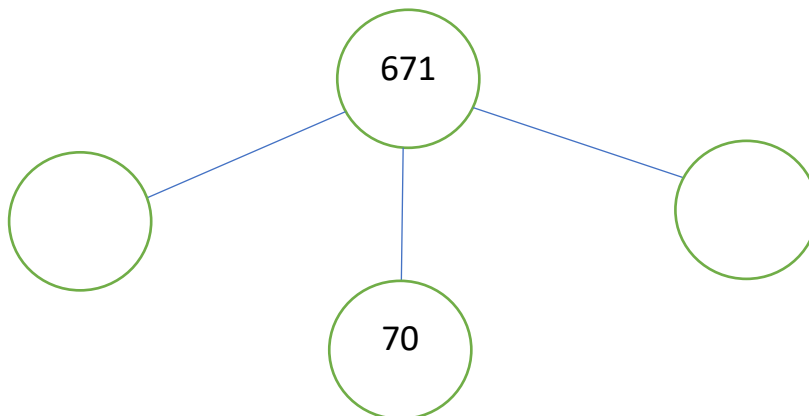
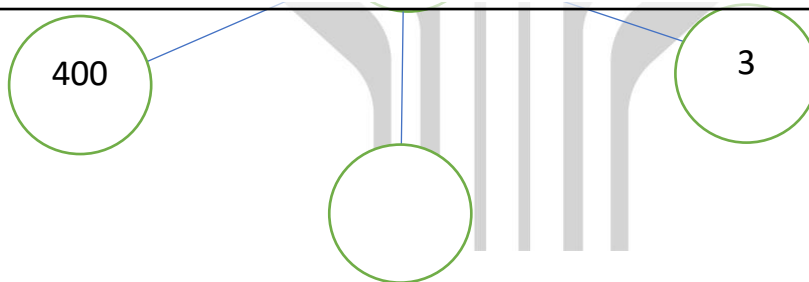


Complete the two part-whole models below:

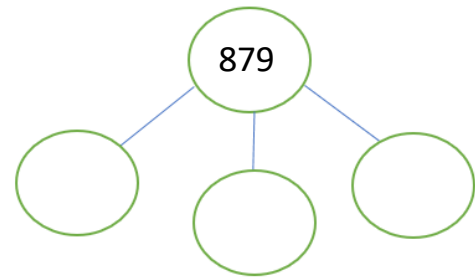
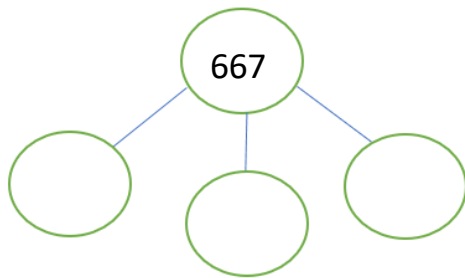
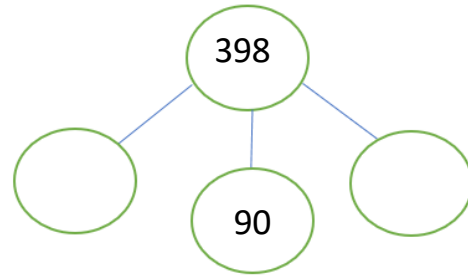
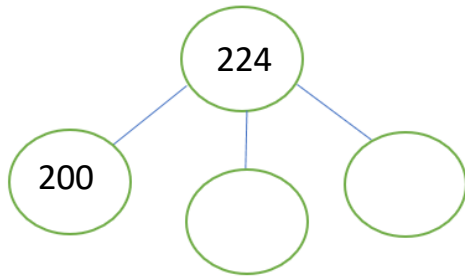


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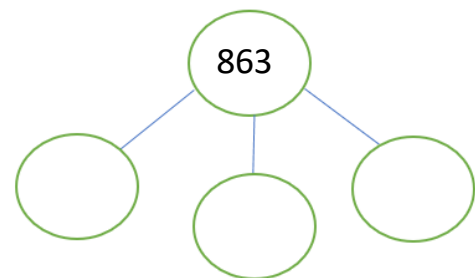
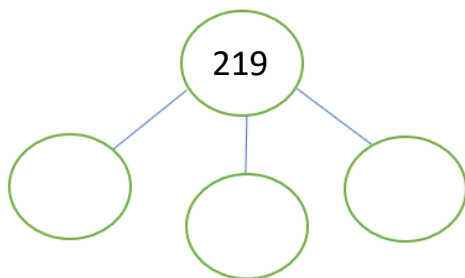
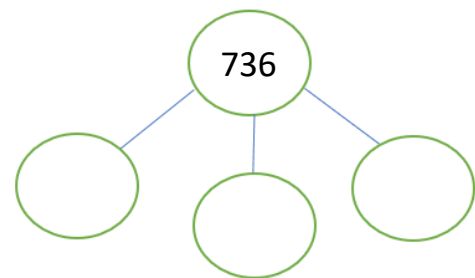
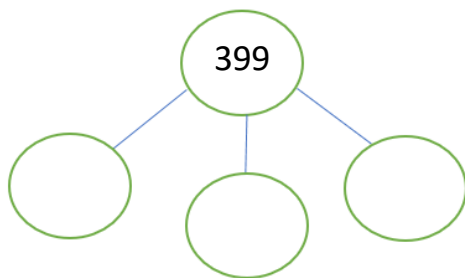


Exercise 2: Complete the part-whole models.



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Exercise 3: Write true or false for each statement. If you write false, write the correct answer next to it.

a) Six hundreds, seven tens and nine ones = 679

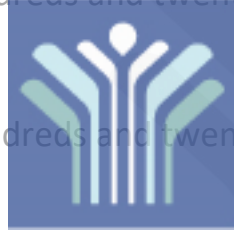
b) Eight hundreds and three ones = 833

c) Two hundreds, one ten and three ones = 213

d) One hundred, zero tens and zero ones = 101

e) Five hundreds and twenty-two ones = 522

f) Four hundreds and twenty tens = 420



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Exercise 4: Use words to write the number of hundreds, tens and ones in each given number. E.g. Four hundred, seven ten and six ones.

a) 365 = \_\_\_\_\_

b) 822 = \_\_\_\_\_

c) 308 = \_\_\_\_\_

d) 917 = \_\_\_\_\_

## Part D: Place Value Riddles.

Use all your place value knowledge to work through each riddle and guess the number.

Riddle 1:

This is a 3-digit number.

The tens digit is an odd number which is smaller than 9 but bigger than 5.

The ones digit is the same as 27 subtract 24.

The hundreds digit is half of eight.

The number is:

Riddle 2:

This is a 3-digit number.

The digits are all the same.

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If you add each digit together, you get a total of 27

The number is:

Riddle 3:

This is a 3-digit number.

The tens digit is the same as  $14 \div 2$ .

The hundreds digit is an even number which is bigger than 4 but smaller than 8.

The ones digit is the same as the number of days in a week.

The number is:

Riddle 4:

This is a 3-digit number.

The tens digit is smaller than one.


The ones digit is half the number of months in a year.

The hundreds digit is half of the ones digit.

The number is:

Riddle 5:

This is a 3-digit number.

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than 4.

The tens digit is 81 less than 82.

The ones digit is three times bigger than the tens digit.

The number is:

Riddle 6:

This is a 3-digit number.

The hundreds digit is an even number greater than 0 but smaller than 4.

The tens digit is double the hundreds digit.

When all three digits are added together, they make 12.

The number is:



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