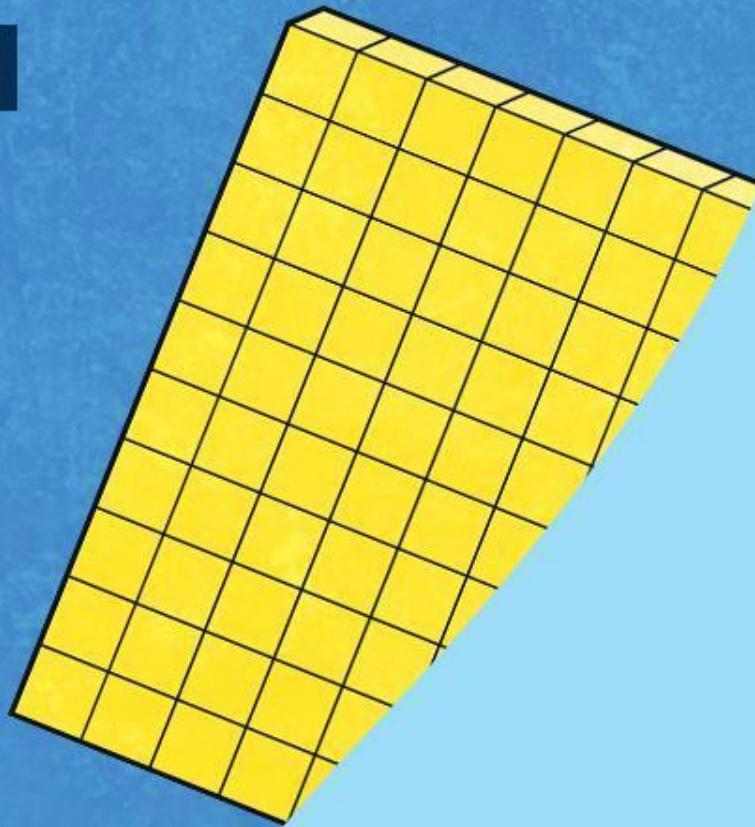
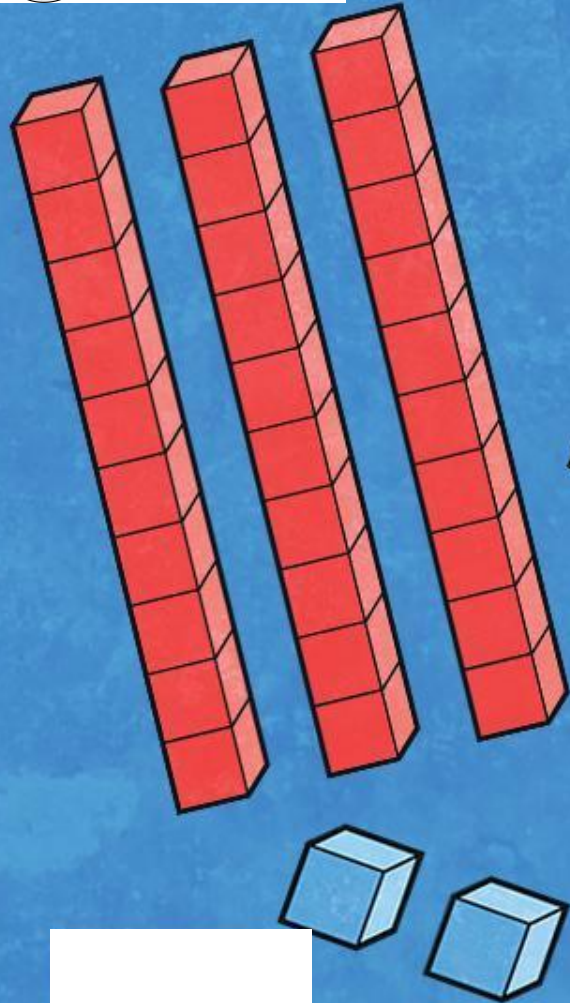


Diving into Mastery



**100s, 10s
and 1s (1)**



Diving into Mastery Guidance for Educators

Each activity sheet is split into three sections, diving, deeper and deepest, which are represented by the following icons:



Diving



Deeper



Deepest

These carefully designed activities take your children through a learning journey, initially ensuring they are fluent with the key concept being taught; then applying this to a range of reasoning and problem-solving activities.

These sheets might not necessarily be used in a linear way. Some children might begin at the 'Deeper' section and in fact, others may 'dive straight in' to the 'Deepest' section if they have already mastered the skill and are applying this to show their depth of understanding.



Aim

- Read and write numbers up to 1000 in numerals and in words.



100s, 10s and 1s (1)

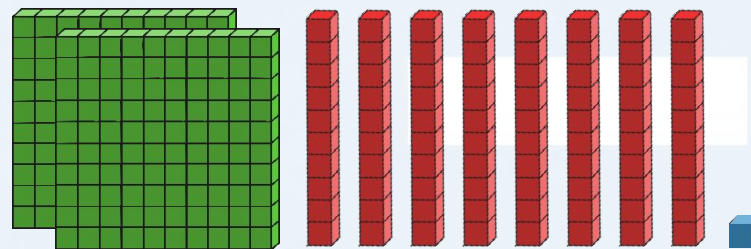
Diving



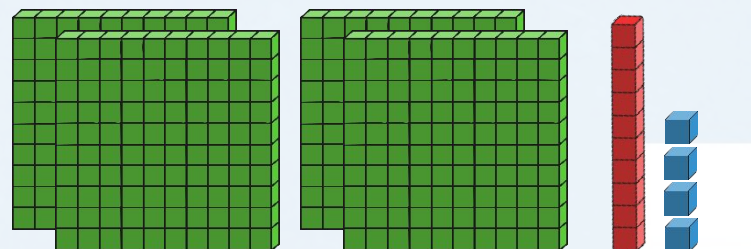
How would we write the number 674 in words?

six hundred and seventy-four

How would we show the number two hundred and eighty-one using base ten blocks?



What number is shown by these base ten blocks?

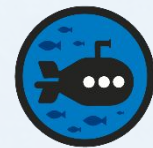


Answer



100s, 10s and 1s (1)

Deeper



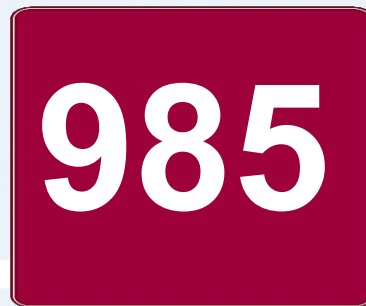
Look at these digit cards:



What is the smallest 3-digit number you could use these cards to make?



What is the greatest 3-digit number you could make?





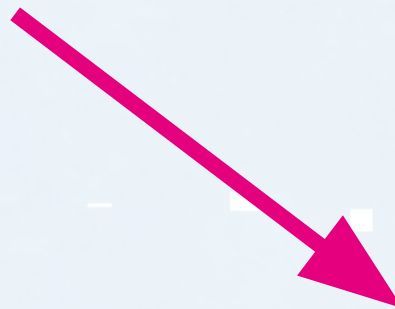
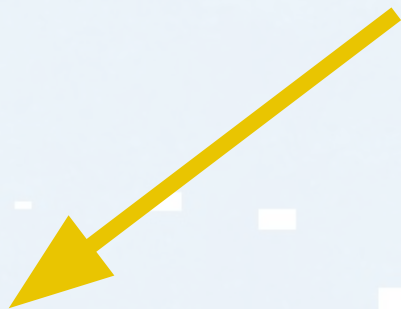
100s, 10s and 1s (1)

Deeper



What is the value of each digit in this number?:

532



500
(or 5 hundreds)

30
(or 3 tens)

2
(or 2 ones)

**100s, 10s and 1s (1)****Deepest**

I'm thinking of a 3-digit number that I can make using these digit cards. I can only use each card once.



There are no tens.
The hundreds digit is a greater number than the ones digit.
The digit total (the digits added together) is 7.

What number am I thinking of?

403



100s, 10s and 1s (1)

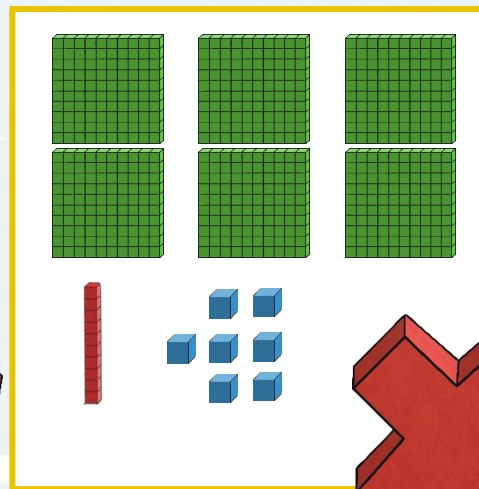
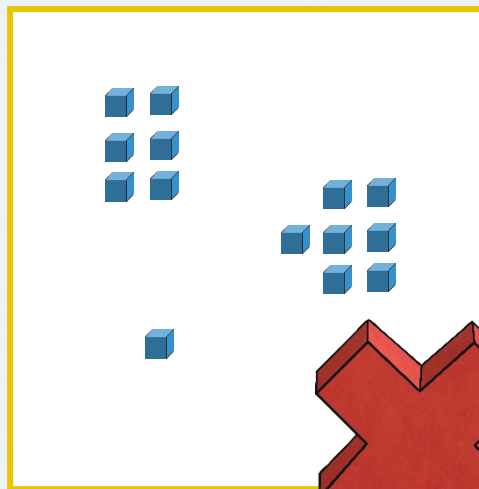
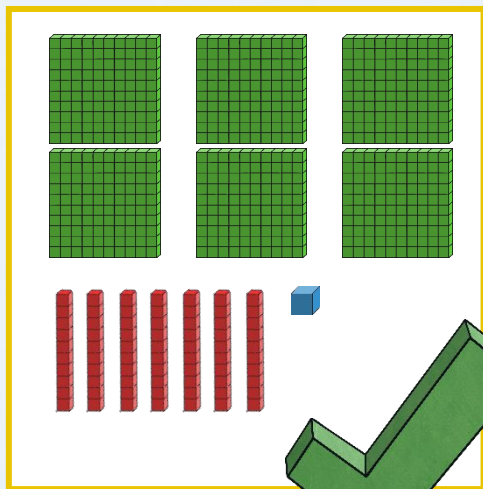
Deepest



Carina isn't sure how to use base ten to represent 671.
She has tried a few different ideas.



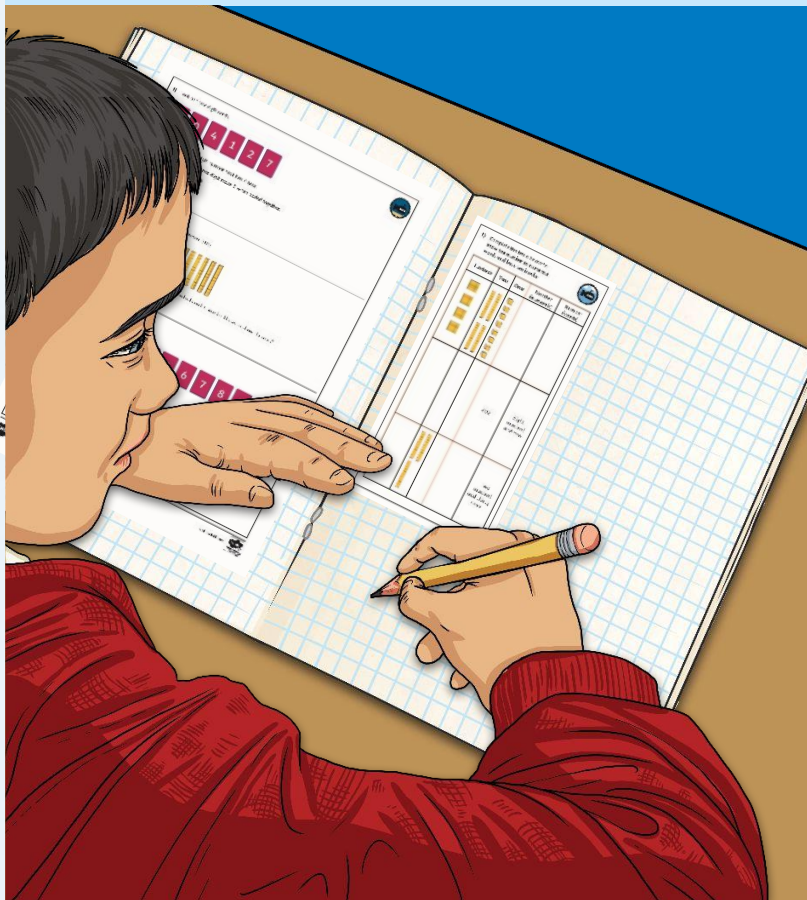
Which one is correct?





100s, 10s and 1s (1)

Dive in by completing your own activity!

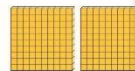


1) Look at these digit cards.



I'm thinking of a 3-digit number.
 Its hundreds digit and ones digit are the same.
 None of the digits are zero.
 It is greater than 500.
 What is my number?

2) Lubas uses base ten blocks to represent a number.



He says, "I have 3 blocks to show the number 300."
 Is he correct?
 How do you know?

3) Look at these digit cards.



I have a 3-digit number.
 The digit total of the tens and ones digits is 3.
 What are the smallest and greatest possible numbers?

1) Complete the table below to show the number in numerals, words and base ten blocks:

Hundreds	Tens	Ones	Number (numerals)	Number (words)
			802	Eight hundred and two
				Two hundred and thirty-seven

1) Look at these digit cards:



- What is the smallest number you can make that uses all three cards?

- What is the greatest number you can make that uses all three cards?

- Using all three cards, how many different numbers can you make? Write them below.

- How do you know that you have found all the possible numbers?

2) What is the value of each underlined digit?

134

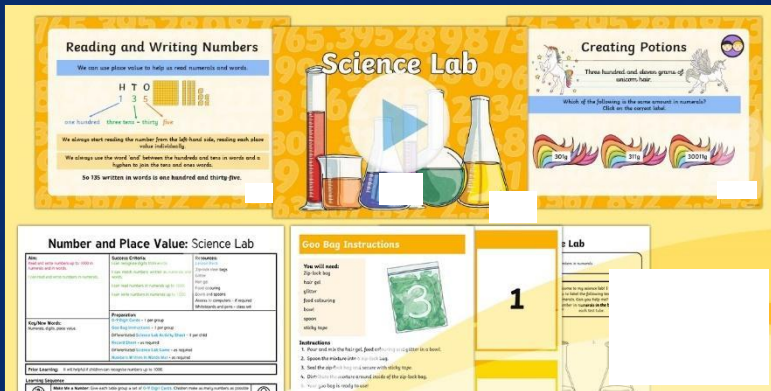
862

220

Need Planning to Complement this National Curriculum Resource?

Read and write numbers up to 1000 in numerals and in words.

For more planning resources to support this aim



This collage features several educational resources:

- Reading and Writing Numbers:** A worksheet explaining the HTO (Hundreds, Tens, Ones) place value system. It includes a diagram of the number 345 and instructions on how to read and write numbers from left to right.
- Science Lab:** A resource titled 'Science Lab' featuring a play button icon, suggesting a video or interactive activity. It includes a table with columns for 'Aim', 'Success Criteria', 'Resources', 'Preparation', 'Key Words', and 'Exit Task'.
- Creating Potions:** A resource titled 'Creating Potions' with a play button icon. It includes a table with columns for 'Aim', 'Success Criteria', 'Resources', 'Preparation', 'Key Words', and 'Exit Task'.
- Number and Place Value: Science Lab:** A resource titled 'Number and Place Value: Science Lab' with a table containing 'Aim', 'Success Criteria', 'Resources', 'Preparation', 'Key Words', and 'Exit Task'.
- Goog Instructions:** A resource titled 'Goog Instructions' with a play button icon and a large number '1'.



This collage features several educational resources:

- Reading and Writing Numbers:** A worksheet explaining the HTO (Hundreds, Tens, Ones) place value system. It includes a diagram of the number 873 and instructions on how to read and write numbers from left to right.
- On a Mission:** A resource titled 'On a Mission' featuring a play button icon and a star with the number 284. It includes a table with columns for 'Aim', 'Success Criteria', 'Resources', 'Preparation', 'Key Words', and 'Exit Task'.
- Number and Place Value: On a Mission:** A resource titled 'Number and Place Value: On a Mission' with a table containing 'Aim', 'Success Criteria', 'Resources', 'Preparation', 'Key Words', and 'Exit Task'.
- Dice Dilemma:** A resource titled 'Dice Dilemma' with a table containing 'Aim', 'Success Criteria', 'Resources', 'Preparation', 'Key Words', and 'Exit Task'.
- Writing Numbers:** A resource titled 'Writing Numbers' with a table containing 'Aim', 'Success Criteria', 'Resources', 'Preparation', 'Key Words', and 'Exit Task'.

Twinkl PlanIt is our award-winning scheme of work with over 4000 resources.



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