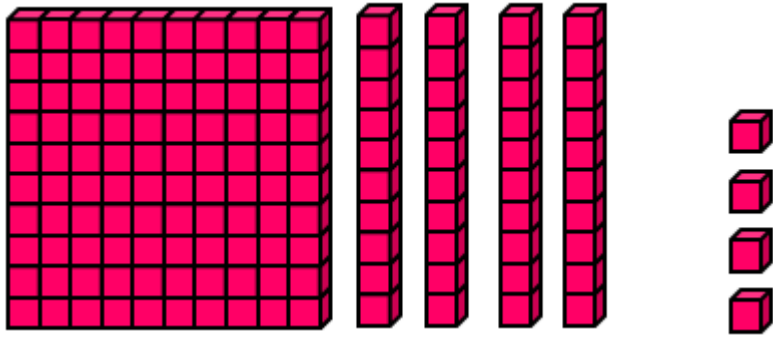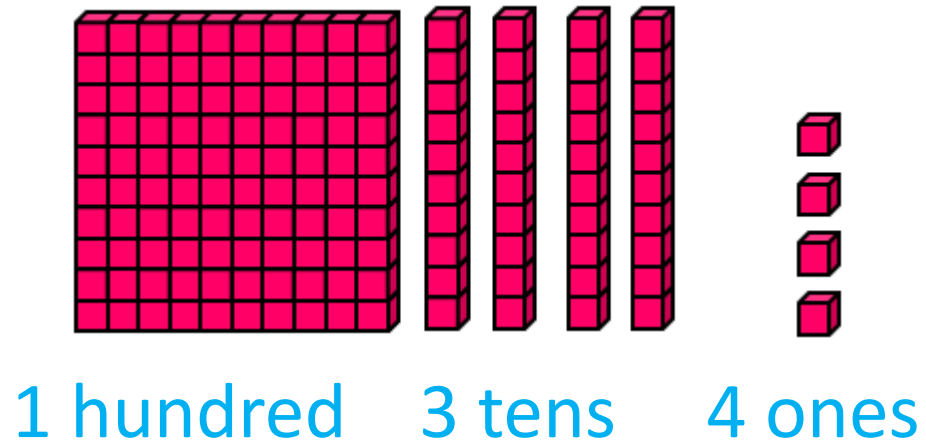# PLACE VALUE

# L.O: I can understand the place value of a digit



What number is represented here?
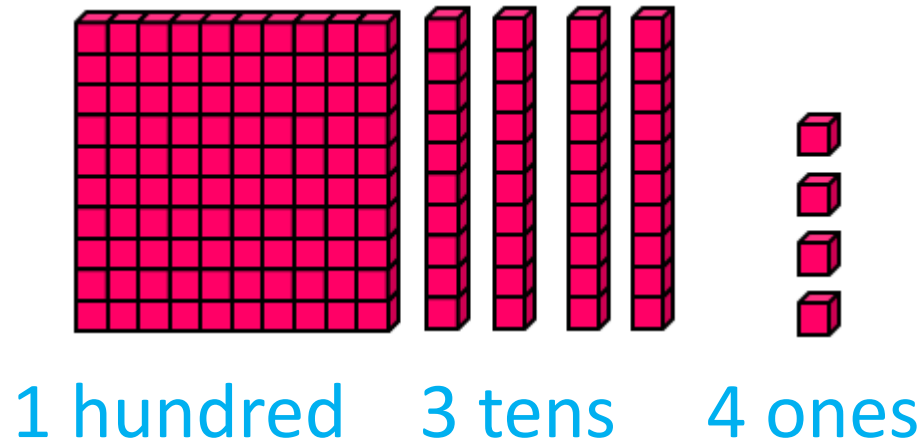
Clue: How many hundreds, tens and ones?

# L.O: I can understand the place value of a digit



1 hundred    3 tens    4 ones

**My number is 134**

# L.O: I can understand the place value of a digit



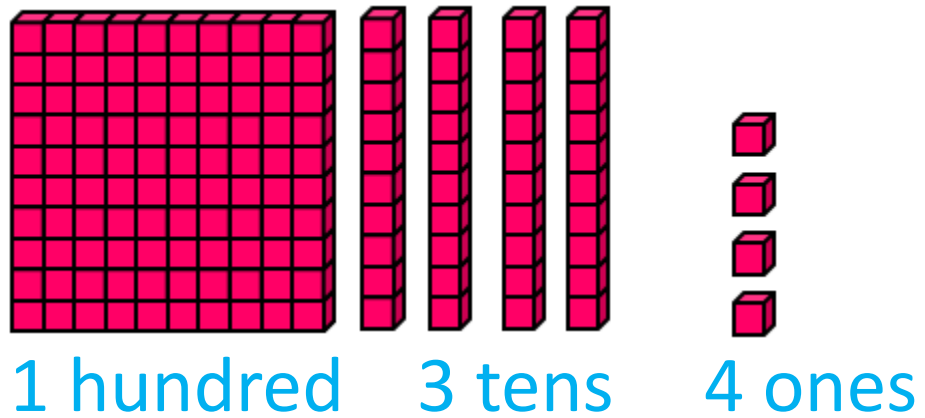1 hundred     3 tens     4 ones

**My number is 134**

**We represented 134 using dienes. How else could we represent it?**

# L.O: I can understand the place value of a digit

## Representing 134

**Dienes**



**1 hundred**     **3 tens**     **4 ones**

**Counting Shapes**



1 hundred     3 tens     4 ones
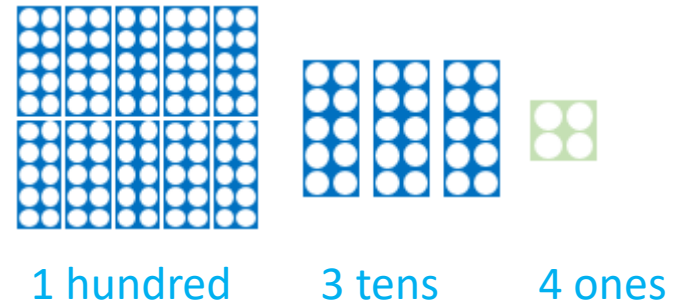
# L.O: I can understand the place value of a digit

## Even more ways of representing 134

Partitioned into hundreds, tens and ones

**134** = **100** + **30** + **4**

134
→ 100
→ 30
→ 4

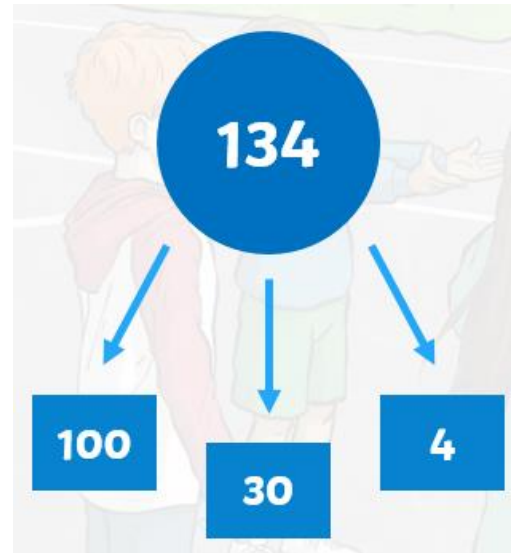# L.O: I can understand the place value of a digit

*5/1/21 – Today, we are going to play games to practise our knowledge of place value.*

*The links are in the Home Learning Task List – you should be able to click through to the games or type out the link into your internet browser.*

*Once you have done them, complete 'Maths Task 5.1.21 – tell me which games you played and what you noticed.'*

# L.O: I can understand the place value of a digit

*6/1/21 – Today, you are going to design a poster exploring different ways we can represent numbers!*

*Pick a number. On the poster, show me all the different ways you can represent that number. Include:*

*- words, digits, dienes, counting shapes, partitioning, any other ways you can think of!*

*Mild – pick a 2 digit number, e.g. 13, 27.*

*Spicy – pick a 3 digit number, e.g. 227, 563.*

*Hot – pick a 3 digit number with a zero in the 10s, e.g. 207, 509, 902.*

# L.O: I can understand the place value of a digit

*7/1/21 – Here is a random number generator: https://numbergenerator.org/randomnumbergenerator/1-1000#!numbers=1&low=1&high=1000&unique=true&csv=&oddeven=&start=true&oddqty=0&sorted=false*

*You are going to use this to generate the numbers for your questions.*

*Mild – generate a number between 1 and 100.*

*Spicy/Hot – generate a number between 1 and 1000.*

# L.O: I can understand the place value of a digit

*Complete 'Maths Task 7.1.21'.*

*Use the random number generator to create your questions!*

*Unless you usually do Extra Mild, opt for Spicy or Hot!*

*If you choose to do Hot, you may have to generate numbers again before attempting a question as your number may be too small – e.g. if you know you have to take away 700, you are going to need to generate a number greater than 700!*

# L.O: I can understand the place value of a digit

*Complete 'Maths Task 7.1.21'.*

*Use the random number generator to create your questions!*

*Unless you usually do Extra Mild, opt for Spicy or Hot!*

*If you choose to do Hot, you may have to generate numbers again before attempting a question as your number may be too small – e.g. if you know you have to take away 700, you are going to need to generate a number greater than 700!*

# L.O: I can understand the place value of a digit

Sarah is given two calculations to work out:

**101-9**

**410-9**

Sarah says that:

*"It's easier to do 101- 9 than 410-9 because 1 is smaller in value then 4."*

Do you agree with her?

Explain whether or not you agree with Sarah and why.
Show your working!