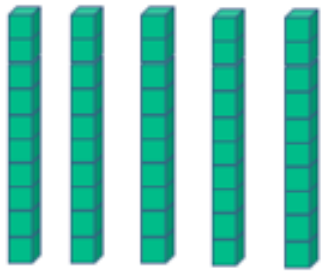
To be able to represent values in the 100s, 10s and 1s columns using Base 10 (Dienes Blocks)

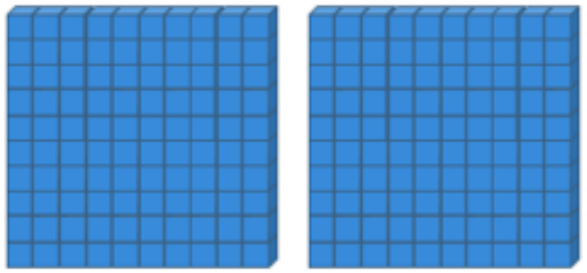
Starter:

How would you write the following amounts in numerals and words?

Example:  is 1 or One.

a) 

b) 

c) 

Success Criteria

- ❑ I can explain that a 3 digit number is made up of 100s, 10s and 1s
- ❑ I can recognise 3 digit numbers represented on a place value grid and write them in numerals
- ❑ I can represent 3 digit numbers in different ways

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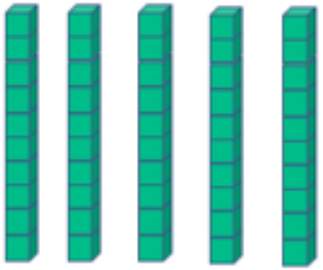
To be able to represent values in the 100s, 10s and 1s columns using Base 10 (Dienes Blocks)

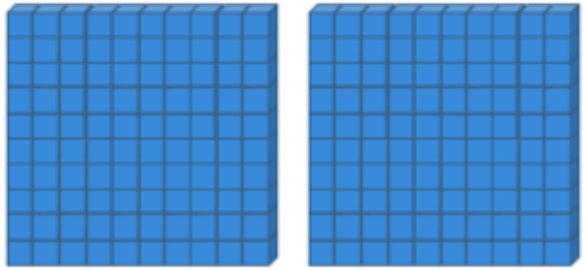
Starter:

How would you write the following amounts in numerals and words?

Example.  is 1 or One.

a)  Is 3 or Three.

b)  Is 50 or Fifty.

c)  Is 200 or Two Hundred.

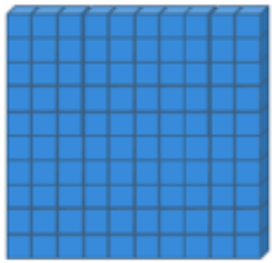
Success Criteria

- ❑ I can explain that a 3 digit number is made up of 100s, 10s and 1s
- ❑ I can recognise 3 digit numbers represented on a place value grid and write them in numerals
- ❑ I can represent 3 digit numbers in different ways

To be able to represent values in the 100s, 10s and 1s columns using Base 10 (Dienes Blocks)

Talking time:

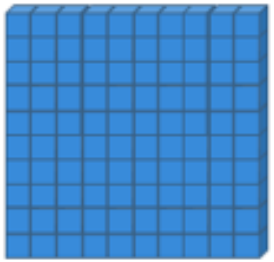
Writing in numerals and words, what is the value of the number represented in the place value table?

Hundreds	Tens	Ones
		

To be able to represent values in the 100s, 10s and 1s columns using Base 10 (Dienes Blocks)

Talking time:

Writing in numerals and words, what is the value of the number represented in the place value table?

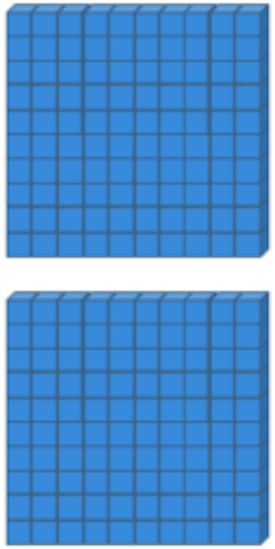
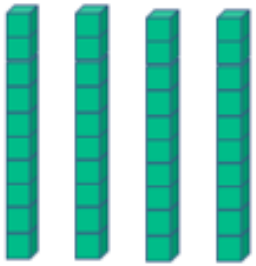
Hundreds	Tens	Ones
		

The place value table shows 103 or one hundred and three.

To be able to represent values in the 100s, 10s and 1s columns using Base 10 (Dienes Blocks)

Talking time:

Writing in numerals and words, what is the value of the number represented in the place value table?

Hundreds	Tens	Ones
		

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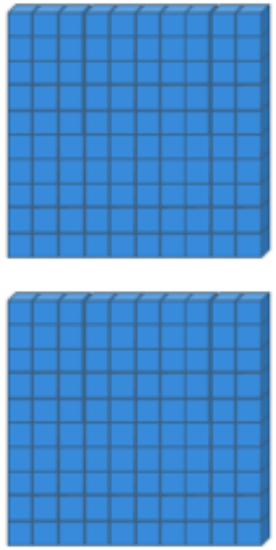
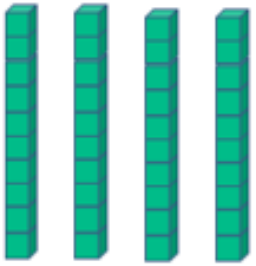
To be able to represent values in the 100s, 10s and 1s columns using Base 10 (Dienes Blocks)

Talking time:

Writing in numerals and words, what is the value of the number represented in the place value table?

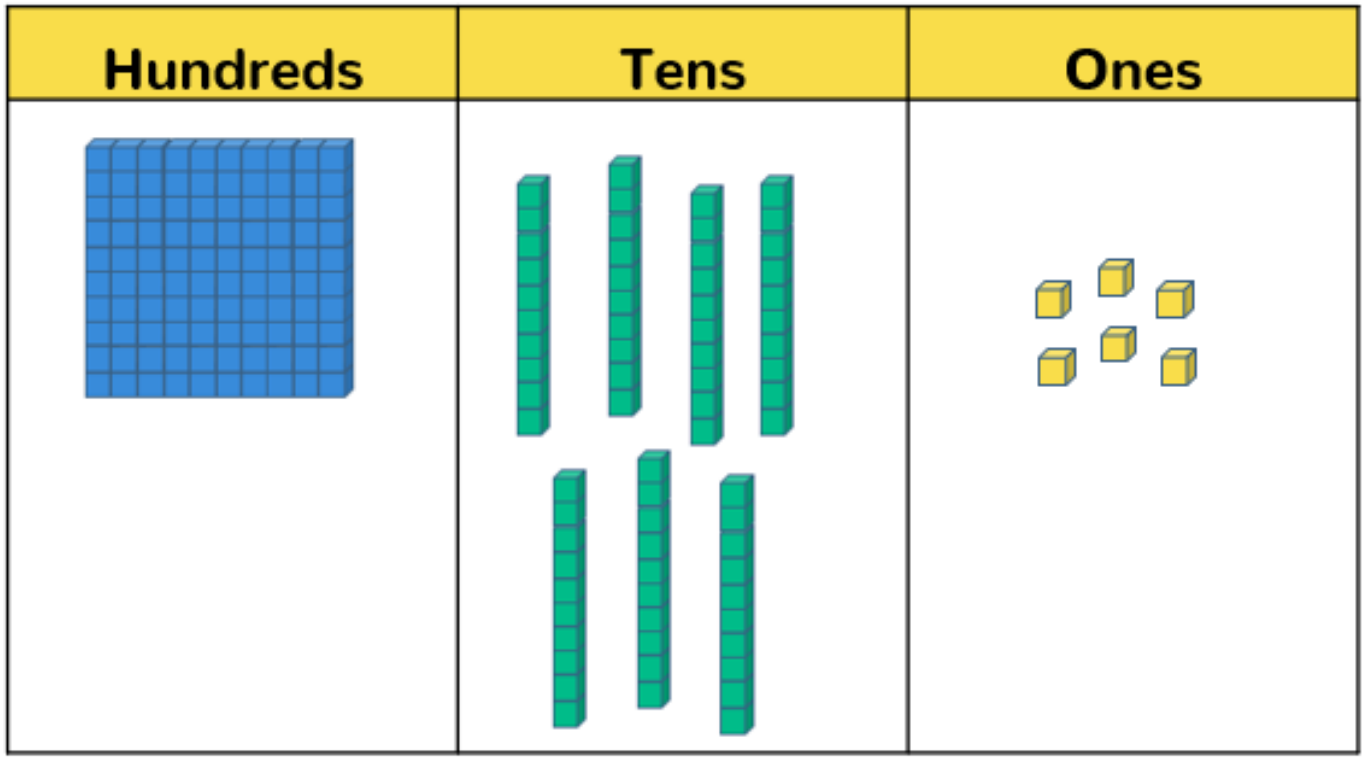
Hundreds	Tens	Ones
		

The place value table shows 240 or two hundred and forty.

To be able to represent values in the 100s, 10s and 1s columns using Base 10 (Dienes Blocks)

Talking time:

Writing in numerals and words, what is the value of the number represented in the place value table?



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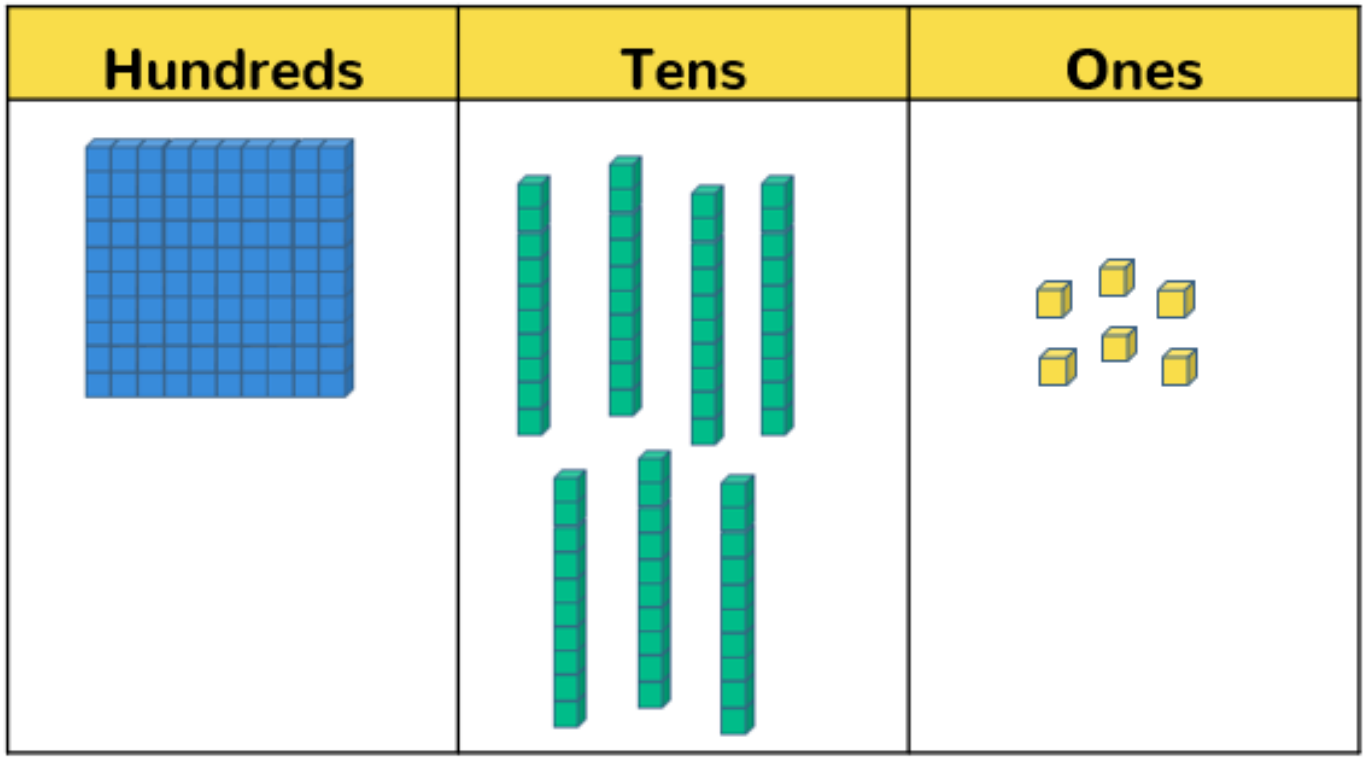
To be able to represent values in the 100s, 10s and 1s columns using Base 10 (Dienes Blocks)

Talking time:

Writing in numerals and words, what is the value of the number represented in the place value table?



The place value table shows 176 or one hundred and seventy-six.

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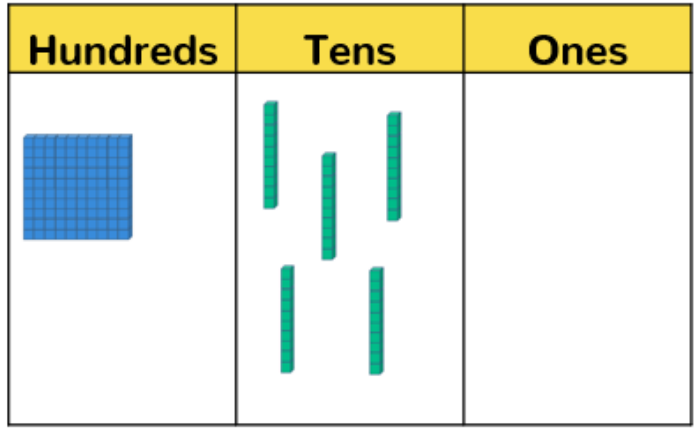
To be able to represent values in the 100s, 10s and 1s columns using Base 10 (Dienes Blocks)

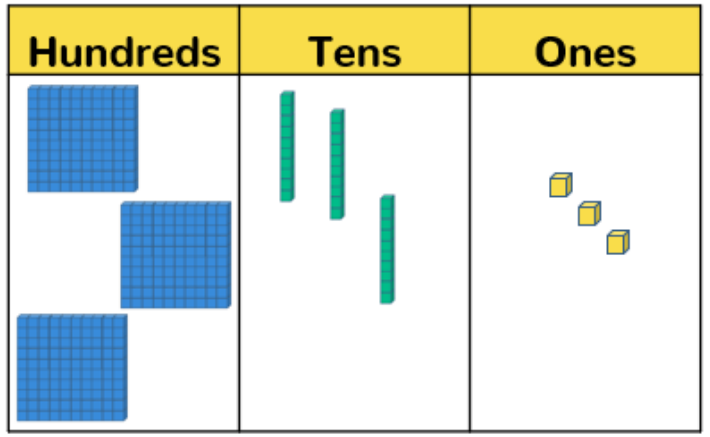
Activity 1:

Write the following representations as words and numerals.

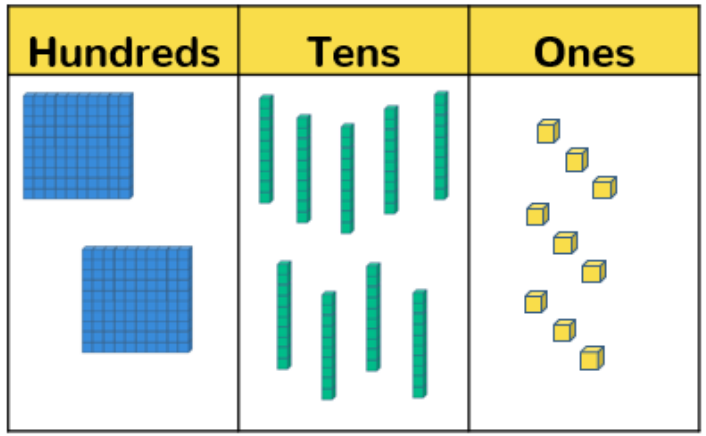
a)



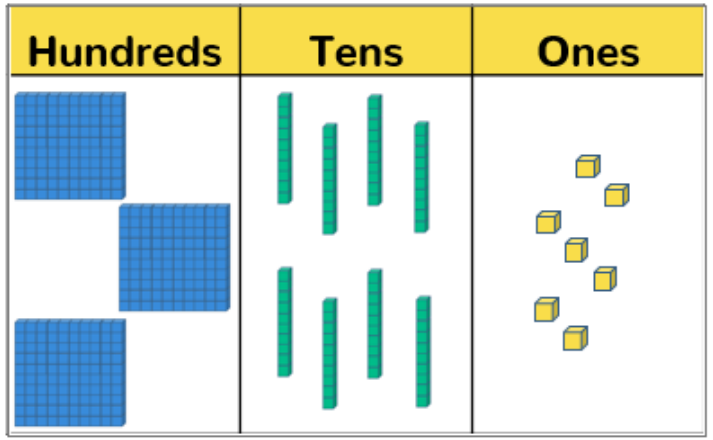
b)



c)



d)



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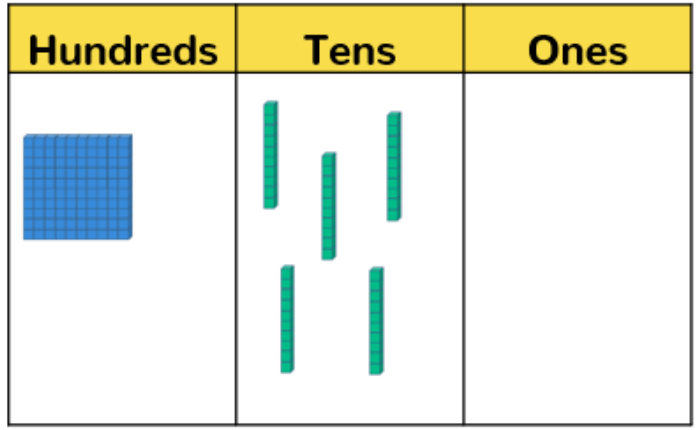
To be able to represent values in the 100s, 10s and 1s columns using Base 10 (Dienes Blocks)

Activity 1:

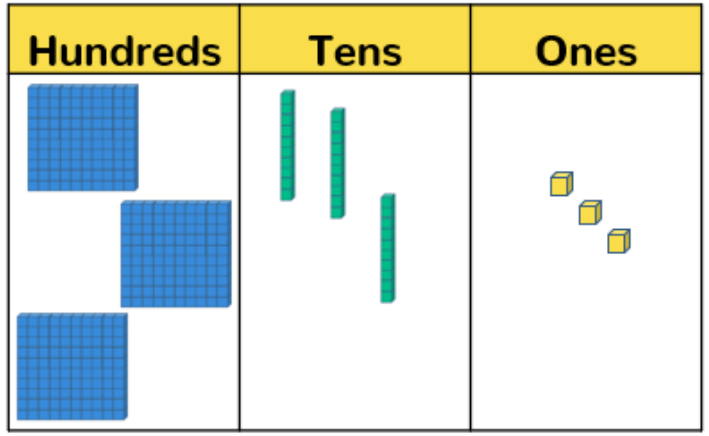
Write the following representations as words and numerals.

a)



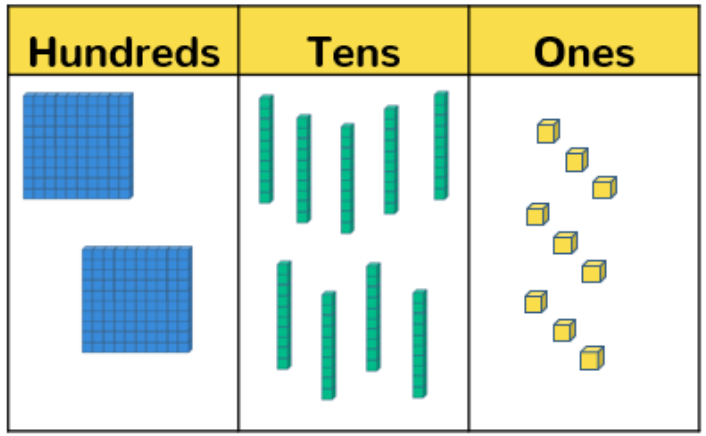
150 or one hundred and fifty.

b)



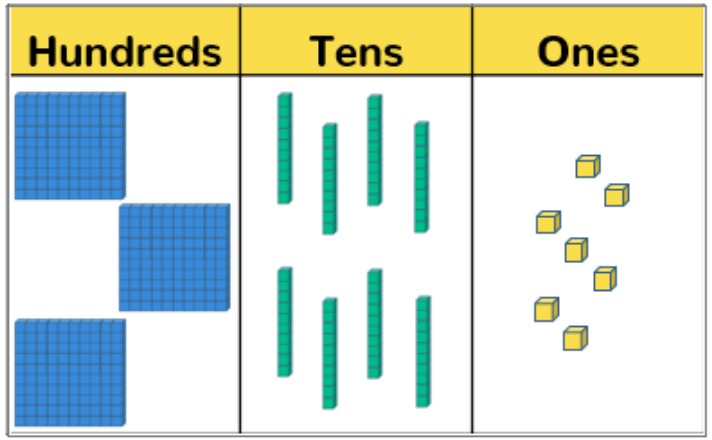
333 or three hundred and thirty-three.

c)



299 or two hundred and ninety-nine

d)



387 or three hundred and eighty-seven.

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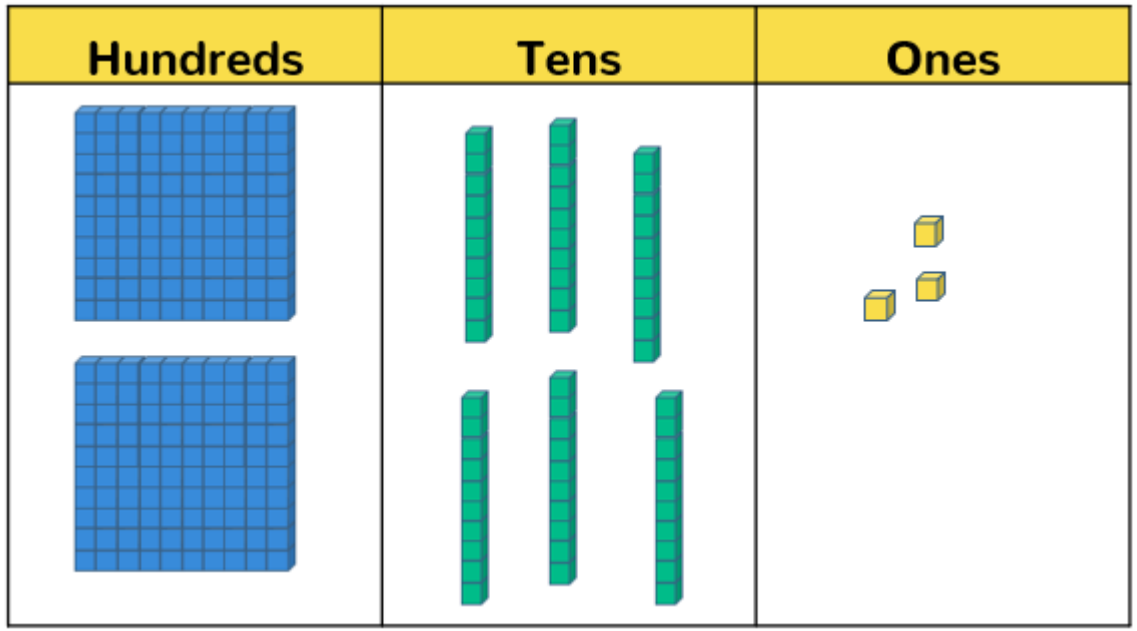
To be able to represent values in the 100s, 10s and 1s columns using Base 10 (Dienes Blocks)

Talking time:

Paul says the place value table above shows 362.
What went wrong?

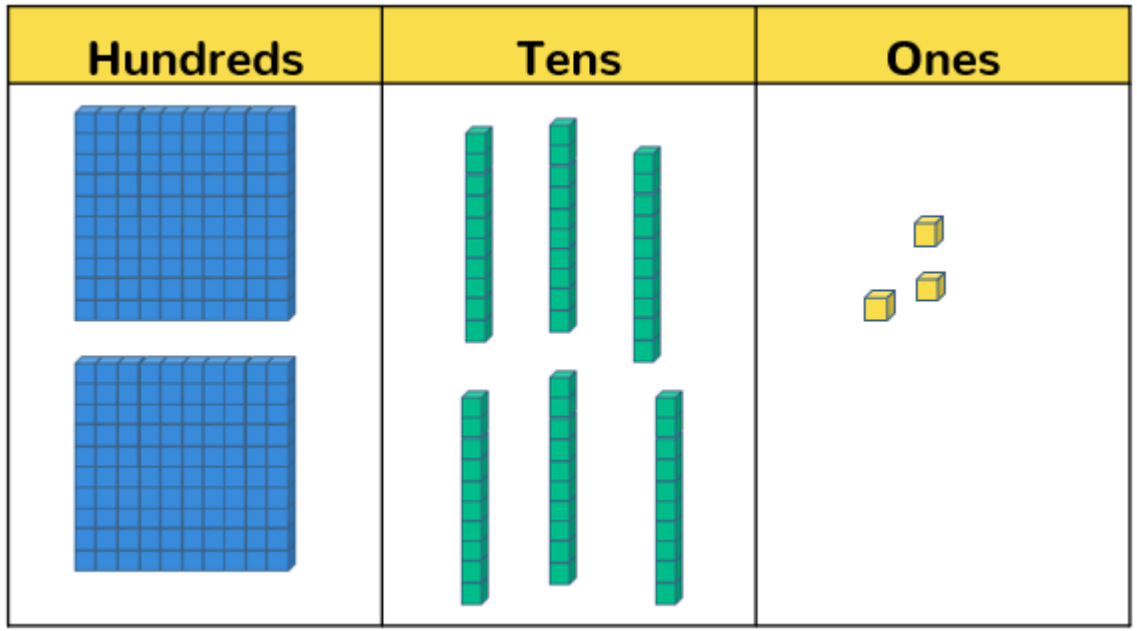


Answer. Prove. Explain.

To be able to represent values in the 100s, 10s and 1s columns using Base 10 (Dienes Blocks)

Talking time:

Paul says the place value table above shows 362.
What went wrong?



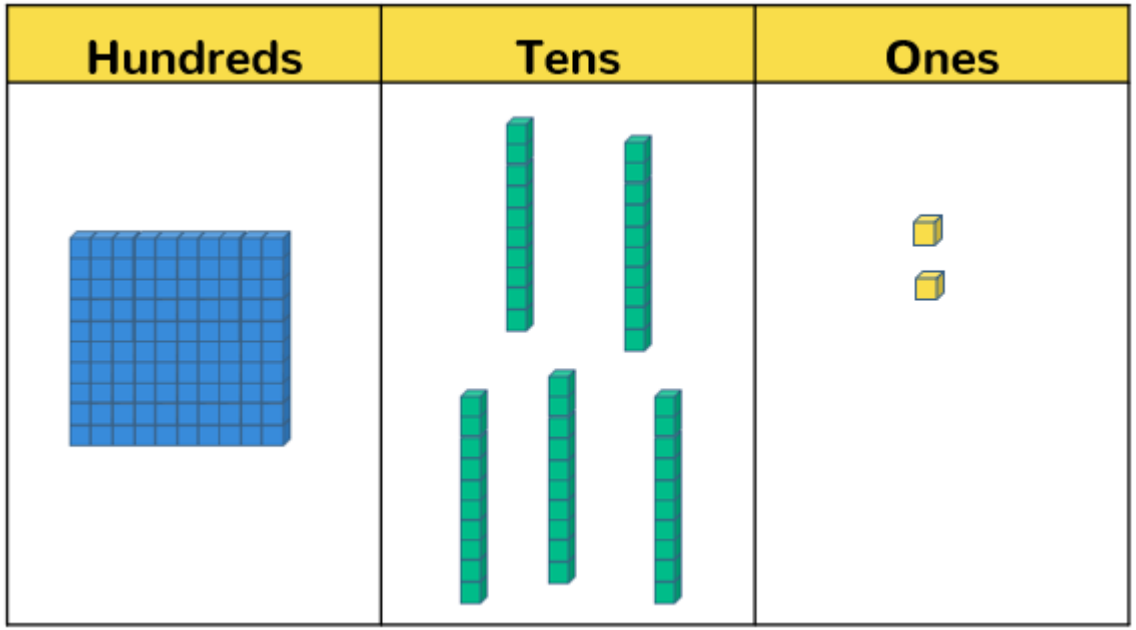
Paul has confused the hundreds and ones columns.
The place value table does not show 362, it shows 263.

Answer. Prove. Explain.

To be able to represent values in the 100s, 10s and 1s columns using Base 10 (Dienes Blocks)

Talking time:

James says the place value table shows 125.
What went wrong?

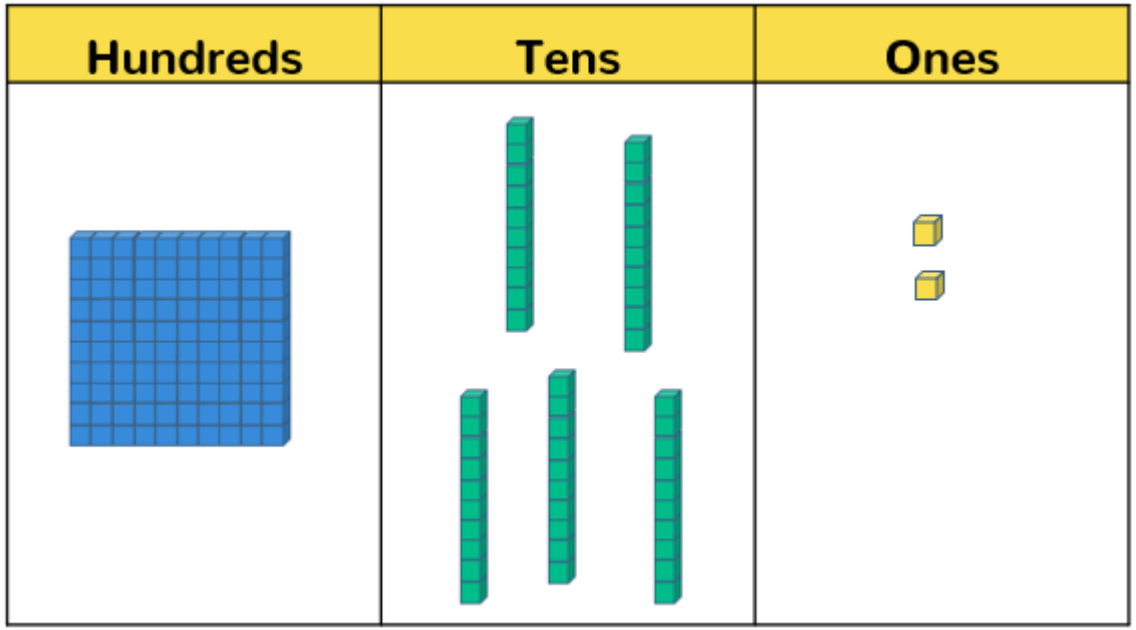


Answer. Prove. Explain.

To be able to represent values in the 100s, 10s and 1s columns using Base 10 (Dienes Blocks)

Talking time:

James says the place value table shows 125.
What went wrong?



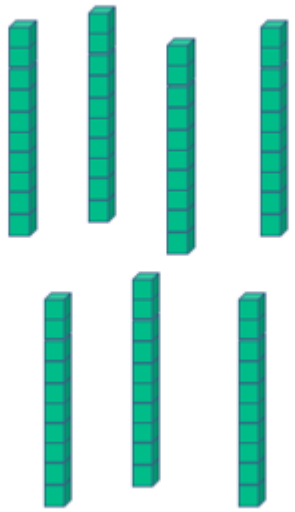
James has confused the tens and ones columns.
The place value table does not show 125, it shows 152.

Answer. Prove. Explain.

To be able to represent values in the 100s, 10s and 1s columns using Base 10 (Dienes Blocks)

Talking time:

John says the place value table below shows seven hundred and two.
What went wrong?

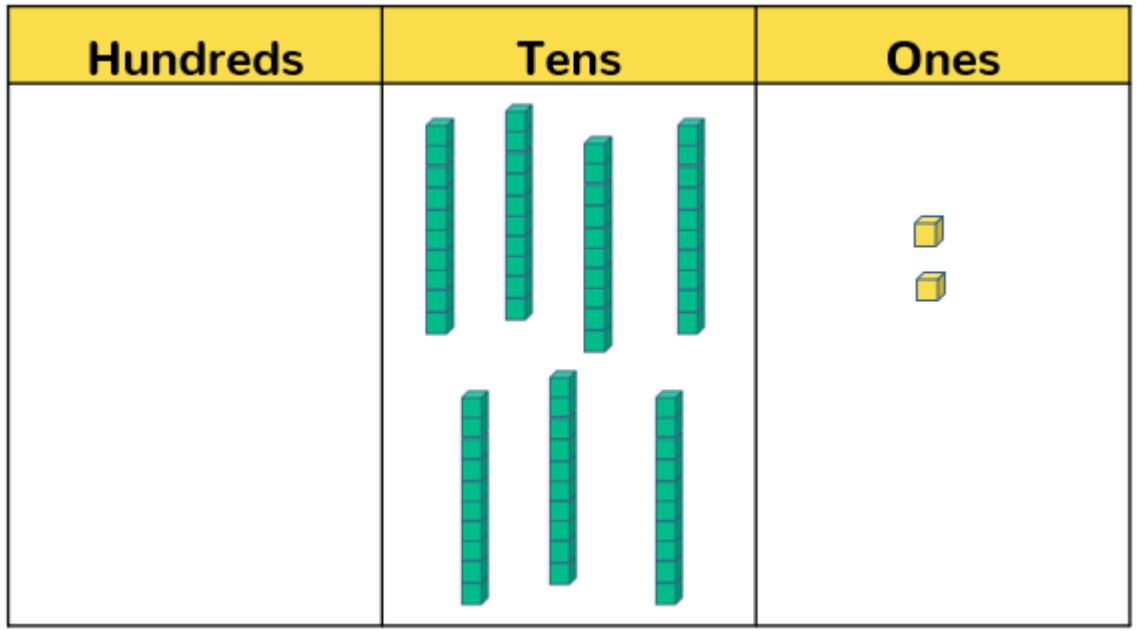
Hundreds	Tens	Ones
		

Answer. Prove. Explain.

To be able to represent values in the 100s, 10s and 1s columns using Base 10 (Dienes Blocks)

Talking time:

John says the place value table below shows seven hundred and two.
What went wrong?



John has confused the hundreds and tens columns. The place value table does not show seven hundred and two, it shows seventy-two.

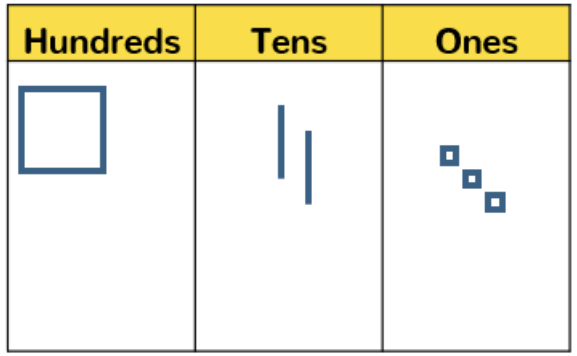
Answer. Prove. Explain.

To be able to represent values in the 100s, 10s and 1s columns using Base 10 (Dienes Blocks)

Activity 2:

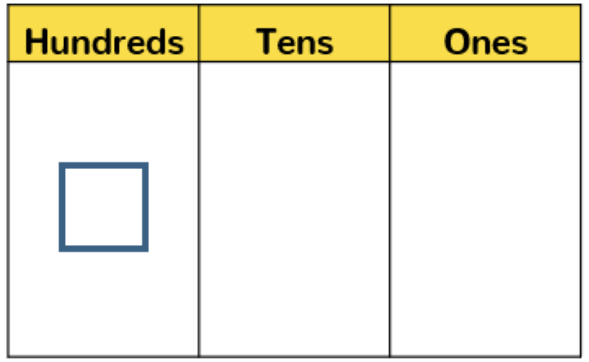
Complete the following place value tables to show the number below each.

a)



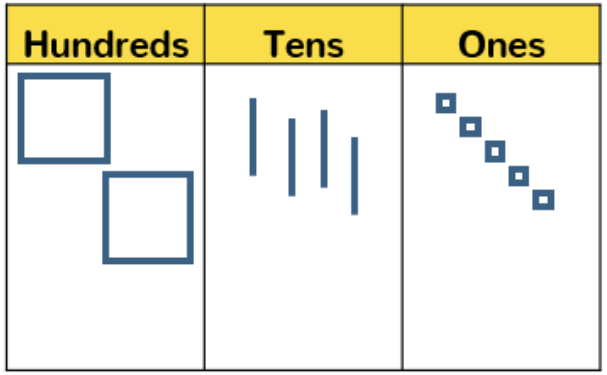
235 or two hundred and thirty-five

b)



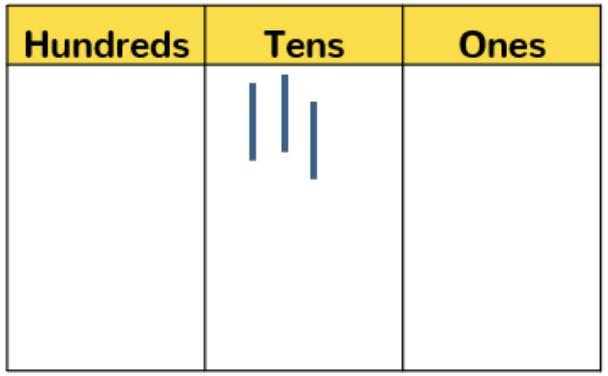
109 or one hundred and nine

c)



378 or three hundred and seventy-eight

d)



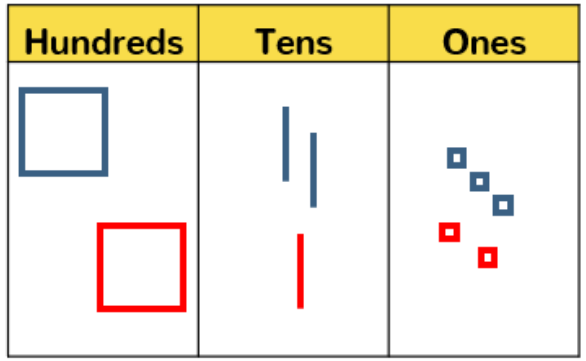
299 or two hundred and ninety-nine

To be able to represent values in the 100s, 10s and 1s columns using Base 10 (Dienes Blocks)

Activity 2:

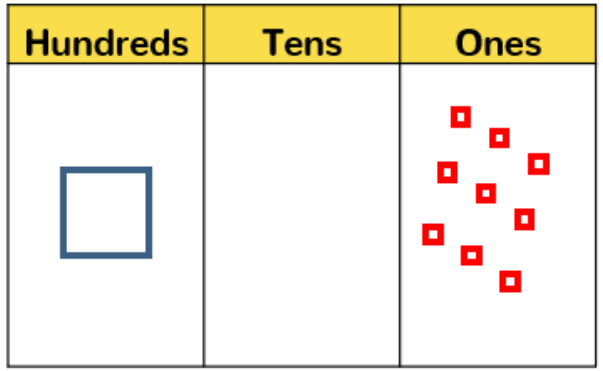
Complete the following place value tables to show the number below each.

a)



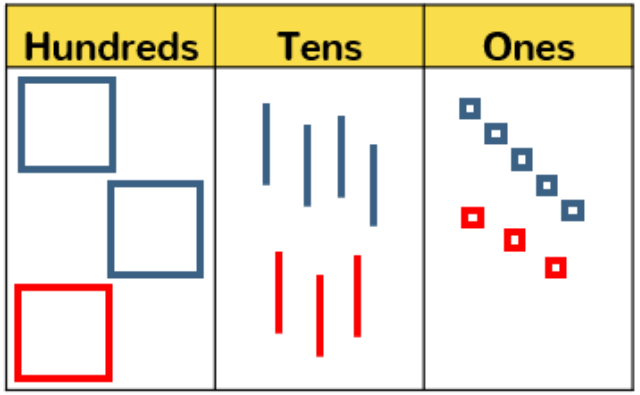
235 or two hundred and thirty-five

b)



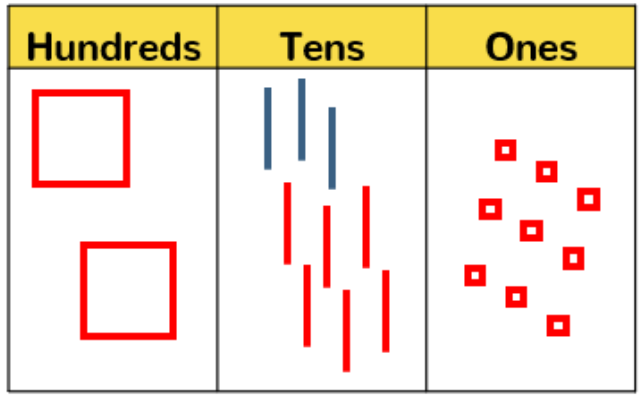
109 or one hundred and nine

c)



378 or three hundred and seventy-eight

d)



299 or two hundred and ninety-nine

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To be able to represent values in the 100s, 10s and 1s columns using Base 10 (Dienes Blocks)

Talking time:

What number would the following make?

Answer. Prove. Explain.

To be able to represent values in the 100s, 10s and 1s columns using Base 10 (Dienes Blocks)

Talking time:

What number would the following make?

101

Answer. Prove. Explain.

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To be able to represent values in the 100s, 10s and 1s columns using Base 10 (Dienes Blocks)

Talking time:

What number would the following make?

Answer. Prove. Explain.

To be able to represent values in the 100s, 10s and 1s columns using Base 10 (Dienes Blocks)

Talking time:

What number would the following make?

325

Answer. Prove. Explain.

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To be able to represent values in the 100s, 10s and 1s columns using Base 10 (Dienes Blocks)

Talking time:

What number would the following make?

Answer. Prove. Explain.

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To be able to represent values in the 100s, 10s and 1s columns using Base 10 (Dienes Blocks)

Talking time:

What number would the following make?

570

Answer. Prove. Explain.

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To be able to represent values in the 100s, 10s and 1s columns using Base 10 (Dienes Blocks)

Talking time:

What number would the following make?

Answer. Prove. Explain.

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To be able to represent values in the 100s, 10s and 1s columns using Base 10 (Dienes Blocks)

Talking time:

What number would the following make?

898

Answer. Prove. Explain.

To be able to represent values in the 100s, 10s and 1s columns using Base 10 (Dienes Blocks)

Activity 3:

What numbers would the following make?

a) 

b) 

c) 

Extension

Can you write the values in both worded and numeral forms?

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To be able to represent values in the 100s, 10s and 1s columns using Base 10 (Dienes Blocks)

Activity 3:

What numbers would the following make?

a) 

350

b) 

783

c) 

999

Extension

Can you write the values in both worded and numeral forms?

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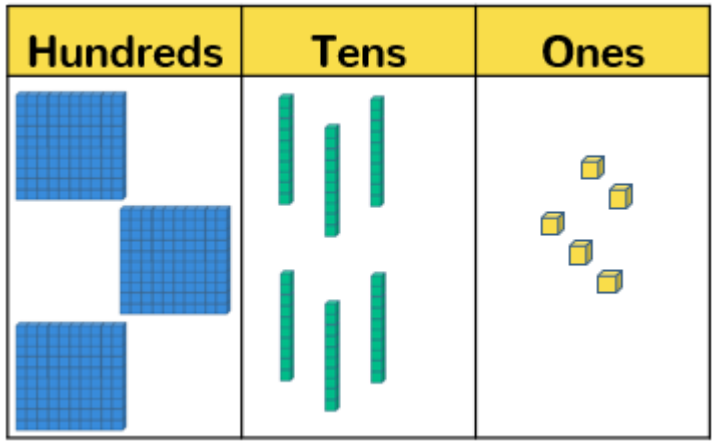
To be able to represent values in the 100s, 10s and 1s columns using Base 10 (Dienes Blocks)

Activity 4:

a) Stephen says, “The place value chart shows three hundred and fifty-six.” Do you agree? ***Answer. Prove. Explain.***



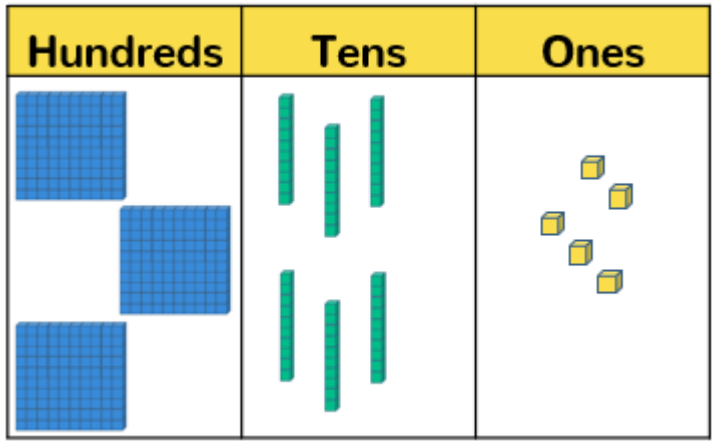
b) Tim says, “If I look at the representation to the right, I should write one hundred and eleven.”

Do you agree? ***Answer. Prove. Explain.***

To be able to represent values in the 100s, 10s and 1s columns using Base 10 (Dienes Blocks)

Activity 4:

a) Stephen says, “The place value chart shows three hundred and fifty-six.” Do you agree? ***Answer. Prove. Explain.*** He has confused the tens and ones columns – 365!



b) Tim says, “If I look at the representation to the right, I should write one hundred and eleven.”

Do you agree? ***Answer. Prove. Explain.*** There is nothing in the tens column, so the value must be 101.

To be able to represent values in the 100s, 10s and 1s columns using Base 10 (Dienes Blocks)

Evaluation:

Using each digit card (once each time), which numbers can you make?

You can use a place value grid to help you.

Hundreds	Tens	Ones

Check your answers with your table partner.

Success Criteria

- ❑ I can explain that a 3 digit number is made up of 100s, 10s and 1s
- ❑ I can recognise 3 digit numbers represented on a place value grid and write them in numerals
- ❑ I can represent 3 digit numbers in different ways

To be able to represent values in the 100s, 10s and 1s columns using Base 10 (Dienes Blocks)

Evaluation:

Using each digit card (once each time), which numbers can you make?

640, 604, 406, 460

You can use a place value grid to help you.

Hundreds	Tens	Ones

Check your answers with your table partner.

Success Criteria

- ❑ I can explain that a 3 digit number is made up of 100s, 10s and 1s
- ❑ I can recognise 3 digit numbers represented on a place value grid and write them in numerals
- ❑ I can represent 3 digit numbers in different ways

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