

Let's explore numbers

CAPS Statement

Numbers, Operations and Relationships

Order, compare and represent numbers to at least 4-digit numbers.

Notes

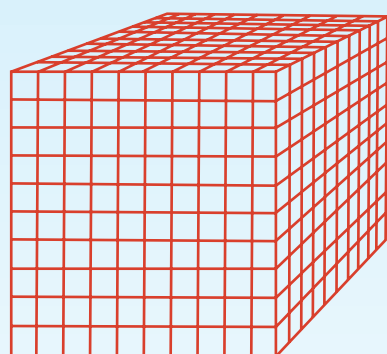
Hundreds, Tens and Units using Dienes blocks

Arranging numbers from smallest to biggest is like finding words in a dictionary.

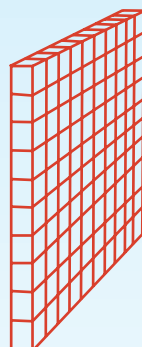
The $>$ and $<$ signs mean the big mouth opens up to eat the biggest number.

Activity 1

Lerato finds some blocks in the classroom. The big block is made up of a thousand cubes, the flat square piece is made up of a hundred cubes, the long piece has ten cubes in total and the cube on its own represents the unit. These are called Dienes blocks. They help us count thousands, hundreds, tens and units.



Thousand



Hundred



Ten



Unit

- (a) Help Lerato add all the Dienes blocks set. Colour in the box with the correct total.

4000

1111

121

- (b) How many hundreds will Lerato need to make the thousands block?

- (c) How many tens will Lerato need to make the hundreds flat square?



Activity 2

Arrange the numbers from smallest to biggest. Deal with the numbers like you would letters. Look at the code game below to give you a clue.

Notes

Code: Let the first nine letters of the alphabet represent numbers:
a = 1; b = 2; c = 3; d = 4; e = 5; f = 6; g = 7; h = 8 and i = 9.

'cab' comes before 'dad' in a dictionary.
And 'bad' comes before 'bag'.

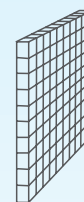
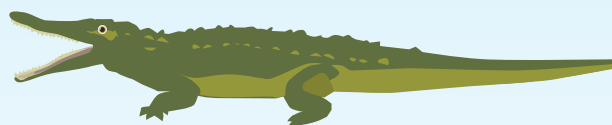
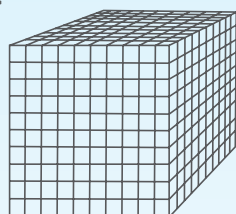
Therefore, 312 is smaller than
414 and 214 is smaller than 217.



- (a) 123; 542; 112; 602 _____
- (b) 998; 909; 900; 899 _____
- (c) 737; 787; 777; 700 _____

Activity 3

Fill in < or >



- (a) 456 426
- (b) 557 755
- (c) 890 809
- (d) 121 212
- (e) 332 323
- (f) 245 225

Teacher Tip

Allow pupils to play with Dienes blocks. Ask them to make a number that is less than 45; make any four-digit number; make a number that is bigger than one hundred and eighty-nine and so on. Look at a dictionary and see that letters are in order. We do the same with numbers when we order them from smallest to biggest.



Is this odd or even?

CAPS Statement

Numbers, Operations and Relationships

Represent odd and even numbers to at least 1 000.

Notes

Odd numbers start at 1. Skip a number every time to find the odd numbers:
1, 3, 5, 7, 9...

Even numbers are any numbers that can be divided by 2. Even numbers start at 2. Skip a number every time to find the even numbers: 2, 4, 6, 8, 10...

Activity 1

Help Lerato sort out all the odd and even numbers given below. Place the numbers under the correct headings. The first two have been done for you.

424	521	993	891	1000	25	202	111	123	334
503	554	78	49	676	772	99	18	30	847

ODD

521

EVEN

424

Teacher Tip

Pupils should be familiar with odd and even numbers. They can represent odd and even numbers on number lines. They can practise counting in odd and even numbers – starting from any number between 1 and 1000.