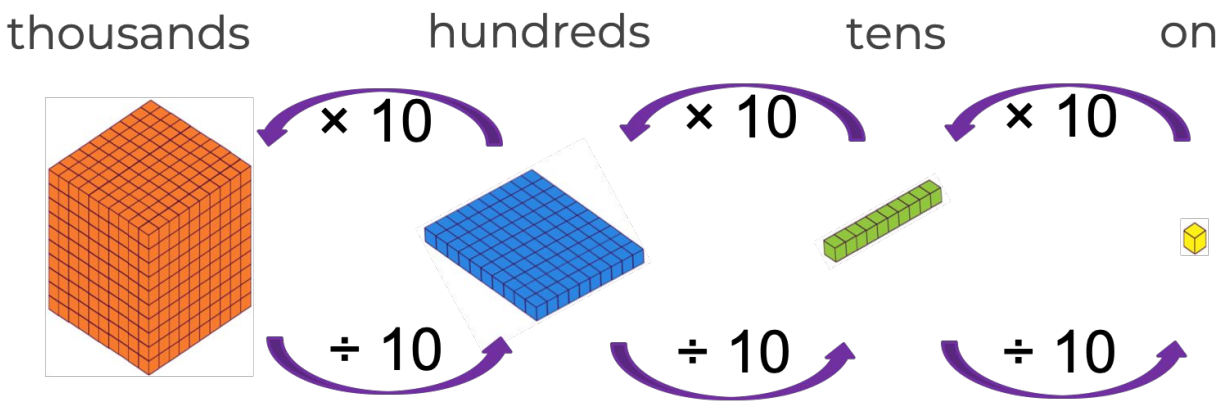
Mathematics

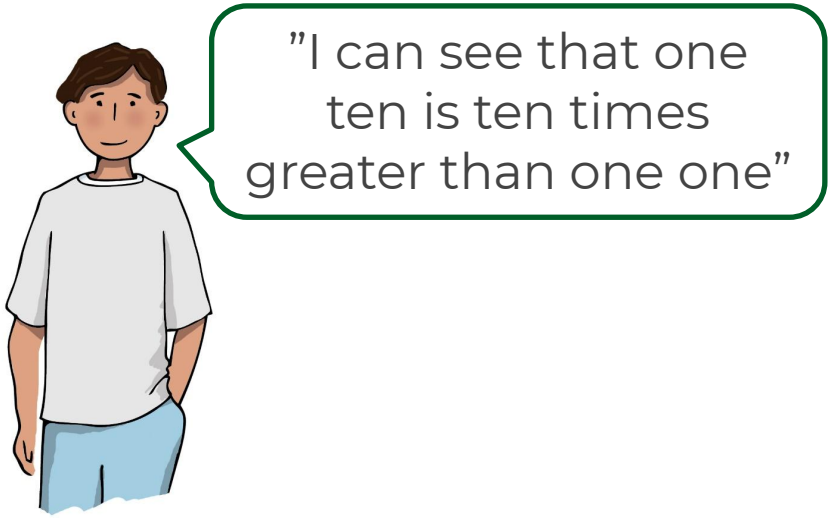
Number systems- Writing base 10 numbers in different bases worksheet

Mr Maseko

Try this

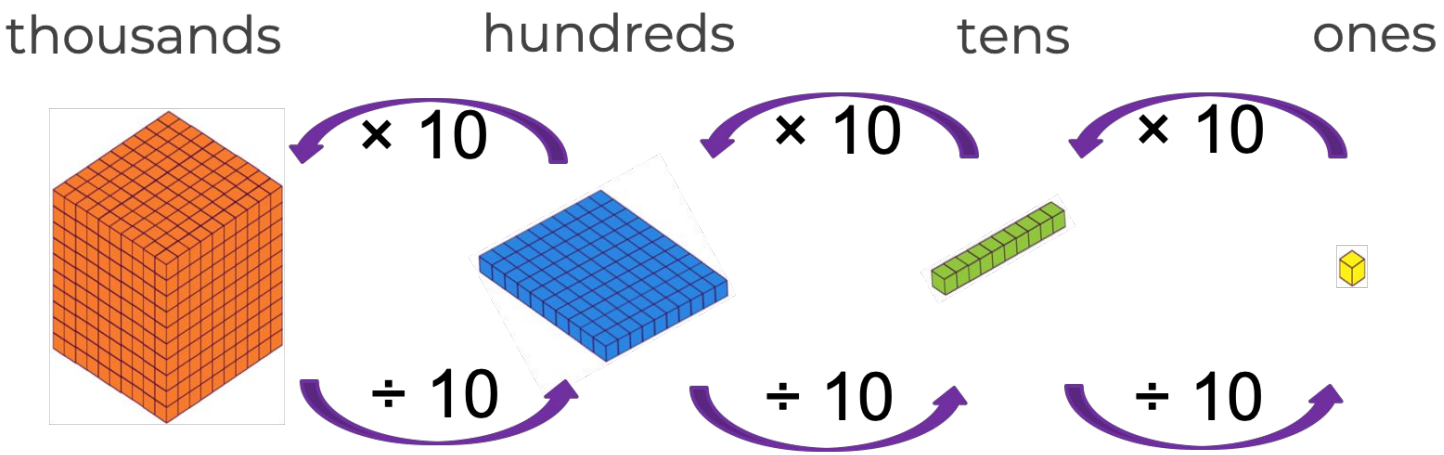


How many sentences can you write using the diagram?



Connect

What is base 10?



Example: 2349

Connect

This is twenty four written in base 10

24_{10}

This is twenty four written in base 5

44_{5}

Write 28_{10} is base 5.

Connect

This is twenty four written in base 10

24_{10}

This is twenty four written in base 7

33_{7}

Write 28_{10} is base 7.

Independent task

Write each of these numbers in base 10

1) 23_5
2) 21_7
3) 35_8
4) 40_5
5) 123_4
6) 1010_2

Independent task

Binary

64s	32s	16s	8s	4s	2s	1s

Write each of the following base 10 numbers in base 2

1) 24

2) 32

3) 35

4) 4

5) 64

6) 128

7) Write this binary number in base 10:

1000101

Why do you think the base 2 system is called the binary system?