$10=10^{1}$ 

 $100 = 10^2$ 

 $1000 = 10^3$ 

 $10000 = 10^4$ 

## How many zeros are there in

**10<sup>6</sup> ?** 

Because the base of these powers is number 10 they are called powers of 10



## powers of 10

#### important?

#### scientists use them

## to express

### big and small numbers

Example **Radius of the Earth** 6400 km This is 6.4.10<sup>3</sup> km Or 6.4-10<sup>6</sup> m

# Are these numbers equivalent?

6400 km 6.4·10<sup>3</sup> km 6.4·10<sup>6</sup> m

Why?