Introduction to Decimals

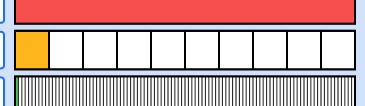
Decimals are a way of expressing numbers that are a **portion of a whole**.

A decimal number is a number that contains decimals. For example, 0.1 and 0.01. We use a decimal point to separate any whole numbers from any decimals.

This is a whole, or 1.

This is **0.1** or one tenth.

This is **0.01** or one hundredth.

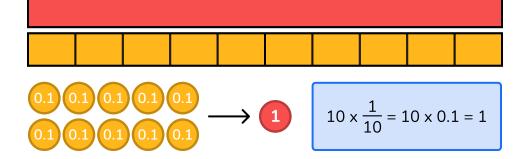


Exchanging

To move from one place value column to the next, we need to **exchange** our decimals.



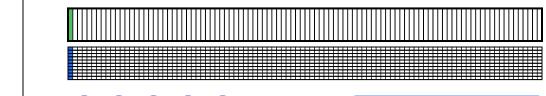
We can exchange 10 tenths for 1, or one whole.







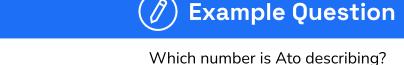
$$0.01 \ 0.01 \$$



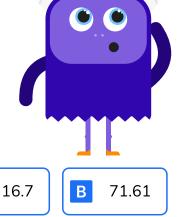
We can also exchange 10 thousandths for 1 hundredth.

$$0.001 \ 0.00$$

We can **exchange** these values because they are **equivalent** (equal) to one another.



My number has seven ones,



Remember!

a thousandth.

D

7.160

Е

7.161

sixteen hundredths and



7.61

We can rule out...

Our number must only have 7 before the decimal point!

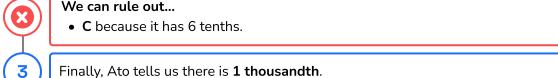
• A because it begins with 16 ones.

С



begin **7.16**....

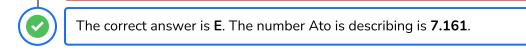
After the decimal point, we have 1 tenth and 6 hundredths. Our number must



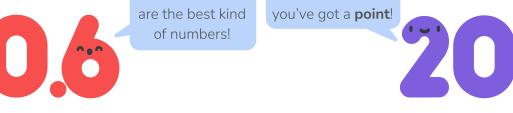
Our number must be 7.161.

• **D** because it has 0 thousandths.

We can rule out...







Joke