

Master Tenths and Hundredths

Rationale

In this step, pupils will build upon their understanding of tenths from Year 3 and make the link between ones, tenths and hundredths. They will understand that 10 hundredths are equivalent to 1 tenth and that 1 tenth is 10 times the size of 1 hundredth. Pupils will learn the equivalence of hundredths to multiples of tenths. For example, 30 hundredths are equivalent to 3 tenths. They will deepen their understanding with equivalences of wider powers of 10. For example, 100 hundredths are equivalent to 1 one or 6 ones are equivalent to 600 hundredths.



Key Stem Sentences

- ___ tenths are equivalent to ___ one (s).
- ___ hundredths are equivalent to ___ tenth (s) / one (s).
- ___ _____s are equivalent to ___ _____s.



Key Vocabulary

- ones / tenths
- hundredths
- equivalent



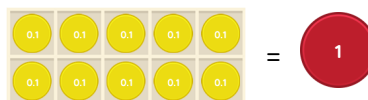
Common Errors or Misconceptions

- Pupils may have difficulty understanding the concept of the number one being divided into 100 equal parts or that 0.01 is 1 hundredth the size of 1

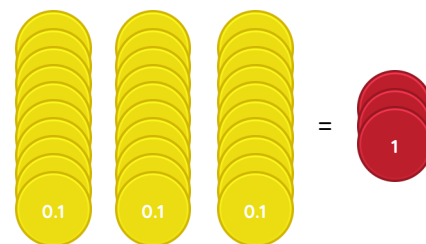


Key Representations

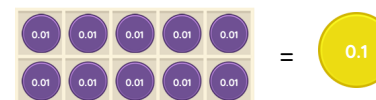
Place Value Counters



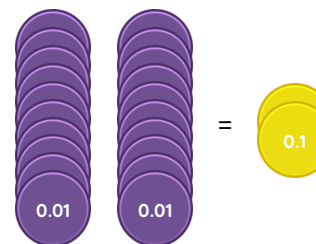
10 tenths are equivalent to 1 one.



30 tenths are equivalent to 3 ones.



10 hundredths are equivalent to 1 tenth.



20 hundredths are equivalent to 2 tenths.



Pupils will FLOURISH if they can...

- identify that 10 tenths are equivalent to 1 one and 10 hundredths are equivalent to 1 tenth.
- recognise that 1 is 10 times the size of 0.1 and 0.1 is 10 times the size of 0.01
- understand the equivalence with wider powers of 10
- explain their understanding using 'Decide, Assess, Back up' with representations.

