

**DESSY (Understand Decimal Halves, Tenths and Fifths)**



Explore the idea that a counting stick (1 metre long, divided into ten equal sections but no with numbers on) is divided into 10 equal 'bits' or 'tenths'.



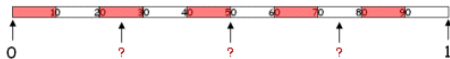
Use it to measure the length and width of a room giving the answers in whole metres and bits (tenths) of metres:

4 whole metres and 8 'bits' can be written as 4.8 (4 point 8)

3 whole metres and 6 'tenths' can be written as 3.6 (3 point 6)

Numbers with (decimal) points are called *decimals*.

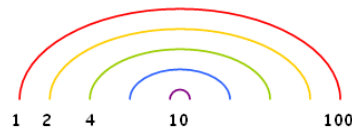
Explore where to cut, to chop a metre stick into 2, 4, 5, 10 equal pieces.



Count in 20s, 25s beyond 100.

Investigate the factor rainbow for 100.

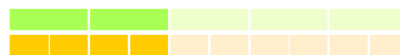
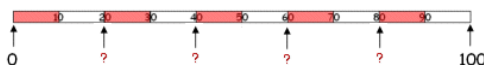
$$2 \times 50 = 100, 5 \times 20 = 100$$



Explore equivalences with halves, tenths, fifths and decimals:

$$1 \text{ half of a metre} = 5 \text{ tenths of a metre} = 0.5\text{m} = 50\text{cm}$$

$$2 \text{ fifths of a metre} = 4 \text{ tenths of a metre} = 0.4\text{m} = 40\text{cm}$$



$$\frac{2}{5} = \frac{4}{10} \checkmark$$