

Lesson 41 **NUMBER****Linking simple fractions and decimals ($\frac{1}{2} = 0.5$, $\frac{1}{4} = 0.25$)**

CURRICULUM ALIGNMENT

NUM.FRC.3a

compare and express in equivalent terms; and order fractions.

NUM.PVT.3

explore equivalent numerical expressions of numbers using the base ten system.

INTERACTIVES **Fraction Strips** · challenge, display, explore

WHAT THIS LESSON TEACHES

A decimal is another way to write a fraction that names exactly the same amount. One half and 0.5 are twins that show the same share.

→ One half of a chocolate bar is the same amount as 0.5 of the bar.

→ A quarter of a euro is the same as 0.25 of a euro.

MODEL THIS ON THE BOARD

ONE HALF AND ITS DECIMAL TWIN

- 1 Shade a bar to show one half of a cake.
- 2 Line the shaded bar up beside a tenths strip.
- 3 The shaded edge lands exactly on five tenths.
- 4 Five tenths is written **0.5**, so one half = 0.5.

DISCUSSION STARTER

REFLECT Which twin is easier for you to picture — the fraction or the decimal?

ANSWER KEY

Scaffold: visual check on the page

Q1: 0.2

Q2: 0.7

Q3: 0.3

Q4: 0.75 litres

Q5: $\frac{1}{4}$

Q6: $\frac{3}{10}$

Spot: One half is five tenths, so $\frac{1}{2} = 0.5$. Oisín put the denominator 2 in the tenths place instead of working out how many tenths equal a half.