

Decimals to thousandths

CURRICULUM ALIGNMENT

NUM.PVT.4

investigate how decimals and percentages (and fractions) can be compared, ordered and expressed in related terms.

INTERACTIVES Place Value Blocks (Dienes) · challenge, display, explore

WHAT THIS LESSON TEACHES

One thousandth is one part when a whole is split into a thousand equal parts. It is written as the third digit after the decimal point (0.001).

→ 0.007 means seven thousandths: seven of the smallest blocks.

→ In 2.305 the final 5 sits in the thousandths column.

→ In 0.105 the zero holds the hundredths place so the 1 stays in tenths and the 5 in thousandths.

MODEL THIS ON THE BOARD

PLACING 1.204 ON THE MAT

- 1 Sketch four columns labelled U, t, h, th and put the decimal point after U.
- 2 Write **1** in the units (U) column.
- 3 Write **2** in the tenths (t) column.
- 4 Write **0** in the hundredths (h) column to hold the place.
- 5 Write **4** in the thousandths (th) column and underline it.

ANSWER KEY

Scaffold: visual check on the page

Q1: 8

Q2: 56

Q3: 2

Q4: 0.004

Q5: 1.008

a) **Always** : Thousandths is always the third place after the decimal point.

b) **Always** : The 7 sits in the thousandths column so the value is seven thousandths.

c) **Sometimes** : The thousandths digit can be zero or any digit from 1 to 9.

d) **Sometimes** : True for 0.375; false for 2.305.