

Place value to 999: hundreds, tens and units

CURRICULUM ALIGNMENT

NUM.PVT.3

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

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

WHAT THIS LESSON TEACHES

Where a digit sits tells you what it is worth. The same digit means a different amount in the hundreds column than in the tens or units column.

→ In 305 the 3 is worth three hundred, but in 530 the 3 is worth thirty.

→ In 408 the zero keeps the tens column empty, so the 4 is hundreds and the 8 is units.

MODEL THIS ON THE BOARD

BREAKING 247 INTO H, T, U

- 1 In 247, the 2 is in the hundreds column, so it is worth 200.
- 2 The 4 is in the tens column, so it is worth 40.
- 3 The 7 is in the units column, so it is worth 7.
- 4 So $247 = 200 + 40 + 7$.

H	T	U
2	4	7

ANSWER KEY

a) 1 8 6

b) 9 0 8

c) 5 3 1

Q1: 300

Q2: 80

Q3: $500 + 0 + 9$

Q4: 8 most (800); 3 least (3)

Q5: $600 + 50 + 0$

Spot: The zero holds the tens place so the 3 stays in the hundreds column. Without it, 35 means 3 tens and 5 units. $305 = 3 \text{ hundreds} + 0 \text{ tens} + 5 \text{ units} = 300 + 5$.

EXTENSION SHEET · STRETCH ANSWERS

S1: 2 (2 ones)

S2: 900 (9 hundreds)

S3: 600 (6 hundreds)

S4: 6 (6 ones)

S5: 300 (3 hundreds)