

Lesson 17 **NUMBER****Written subtraction of 2-digit numbers with renaming**

CURRICULUM ALIGNMENT

NUM.OPS.3

understand and apply flexibly the four operations; and the relationships between operations.

NUM.PVT.3

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

INTERACTIVES **Column Subtraction** · challenge, display, explore

WHAT THIS LESSON TEACHES

When the top units are too few to take away from, we swap one ten from the tens column for ten extra units, so there are now enough units to subtract.

→ In $52 - 17$ we rename so tens become 4 and units become 12, then $12 - 7 = 5$.

→ $64 - 28$ needs renaming because 4 is less than 8.

MODEL THIS ON THE BOARD

RENAMING TO SUBTRACT $52 - 17$

- 1 Look at the units: we cannot take 7 from 2.
- 2 Rename one ten: cross out 5 tens to make 4 tens and change units 2 into 12.
- 3 Subtract units: $12 - 7 = 5$.
- 4 Subtract tens: $4 - 1 = 3$.
- 5 The answer is 35. Check: $35 + 17 = 52$.

DISCUSSION STARTER

REFLECT When a column needed renaming, what clue told you before you started?

ANSWER KEY

a) 35

b) 36

c) 26

Q1: 36

Q2: 27 books

Q3: 26 crayons

Q4: 35 ropes

Spot: Aoife took the smaller unit from the larger ($7 - 2$) instead of renaming. Rename one ten so 52 becomes 4 tens and 12 units: $12 - 7 = 5$ and $4 - 1 = 3$. The correct answer is 35.