

Written subtraction of 2-digit numbers with renaming

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: 35 ropes

a) **Always** — Renaming is always needed so there are enough units to subtract.

b) **Always** — You always swap one ten, so the tens digit drops by one.

c) **Sometimes** — Renaming is only needed when the top units are too small.

d) **Never** — Four tens and twelve units is still worth the same as five tens and two units.