

Estimate, group, count: tens make big counts easy

CURRICULUM ALIGNMENT

NUM.PVT.2b use estimation to quickly determine number values and number calculations.

INTERACTIVES Estimation Game · challenge, display, explore

WHAT THIS LESSON TEACHES

An estimate is a careful guess you make before you count. Grouping into tens lets you count 10, 20, 30 and so on, and any leftovers are the units.

→ Looking at a spill of counters and saying 'about 30' before you group them.

→ Three full groups of ten and two left over make 32.

MODEL THIS ON THE BOARD

BLOCKS SPILL ON THE DESK

- 1 Look at the spill of building blocks. Make a careful estimate first: about **40**.
- 2 Group the blocks into tens without counting one by one: **4** full tens and **7** left over.
- 3 Say the tens: 10, 20, 30, 40. Add the **7** units. The true count is **47**.

ANSWER KEY

Q1: 5 tens and 4 units

Q2: 3 tens and 8 units

Q3: 2 tens and 8 units

Q4: 6 tens and 3 units

Q5: 7 tens and 1 unit

Q6: 8 tens and 6 units

a) Always : The lesson defines an estimate as a careful guess before counting.

b) Always : Tens let you say 10, 20, 30 instead of one-by-one counting.

c) Always : Leftovers that do not make another ten are the units.

d) Never : An estimate is a careful guess and need not match the exact total.

EXTENSION SHEET · STRETCH ANSWERS

S1: 6 tens and 7 units

S2: 37

S3: 48

S4: 60