

Mental Math · Multiplication Tricks

CKSTEM Math Problem Solving · Grades 4–6

Try each problem on your own first — then watch the solution videos.

★ Factor Pairs

These look like hard multiplications: 16×25 , 18×50 , and 24×25 . Try 16×25 in your head first.

WORK IT OUT HERE

LO Double and Halve

Each of these feels awkward in your head: 35×6 , 25×8 , and 45×4 . Try 35×6 first.

WORK IT OUT HERE

L1 Times-Five is Times-Ten Halved

Three quick fives in your head: 26×5 , 48×5 , and 84×5 . Start with 48×5 .

WORK IT OUT HERE

L2 Distribute (Break-Apart)

These are easy to write but hard to see at a glance: 6×34 , 7×23 , and 8×45 . Try 7×23 in your head.

WORK IT OUT HERE

L3 Greatest Product Under a Cap

From the cards 6, 12, 16, and 18, pick two different cards — one for the rows, one for the columns of a tray. Rows \times columns is the number of kits, but the tray holds at most 200 kits. Which two cards make the fullest tray without going over?

WORK IT OUT HERE

L4 Times-Eleven by Adding Neighbours (with carry)

Each of these looks like real multiplication work: 11×36 , 11×54 , and 11×76 . Try 11×36 first.

WORK IT OUT HERE

L5 Squaring Near a Base

Some squares look hard: 25^2 , 35^2 , and 48^2 . Try 35^2 first.

WORK IT OUT HERE