

Excess & Shortage

CKSTEM Math Problem Solving · Grades 4–7

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

L0 Leftover-Over-Gap

A volunteer is packing care kits for new families. If she packs 2 kits, 6 juice boxes are left over. If she packs 5 kits, the juice boxes fit exactly. How many juice boxes go in each kit?

WORK IT OUT HERE

L1 Shortage-Over-Gap

A volunteer is packing welcome boxes for new families. If she packs 8 boxes, she still needs 10 more soap bars. If she packs 6 boxes, the soap bars fit exactly. How many soap bars go in each box?

WORK IT OUT HERE

L2 Swing = Excess + Shortage

A volunteer at an animal shelter is packing pet-food bags for rescued animals. If she fills 5 bags, 7 food packs are left over. If she fills 7 bags, she needs 3 more food packs. How many food packs are there altogether?

WORK IT OUT HERE

L3 Difference of Leftovers

A volunteer at a community centre is preparing book bundles for newcomer families. If she makes 5 bundles, 16 books are left over. If she makes 7 bundles, 2 books are left over. How many books are there altogether?

WORK IT OUT HERE

L4 Match Groups First, Then Bridge

A volunteer is arranging flowers into vases for seniors at a care home. If she uses 3 vases, 18 flowers are left over. If she uses 5 vases with 2 more flowers in each vase than before, they fit exactly. How many flowers are there altogether?

WORK IT OUT HERE

L5 Time-Saved = Speed Bridge

Mia walks to an animal rescue centre to help with evening care. If she walks at 40 metres per minute, she arrives 7 minutes late. If she walks at 50 metres per minute, she arrives 2 minutes late. How far is the rescue centre from her home?

WORK IT OUT HERE