

Name: _____ Date: _____

Multiplication HTO \times TO using partitioning

- Use partitioning to calculate HTO \times TO
- Estimate and check the answer to a calculation

Challenge

1

a $6 \times 7 = \square$

b $60 \times 7 = \square$

c $60 \times 70 = \square$

d $600 \times 7 = \square$

e $600 \times 70 = \square$

Challenge

2

Estimate the answer first; then, on the back of this sheet, partition each calculation to work out the answer.

Example $263 \times 38 \rightarrow 300 \times 40 = 12\,000$
 $= (200 \times 38) + (60 \times 38) + (3 \times 38)$
 $= 7600 + 2280 + 114$
 $= 9994$

a 346×42

b 579×63

c 268×37

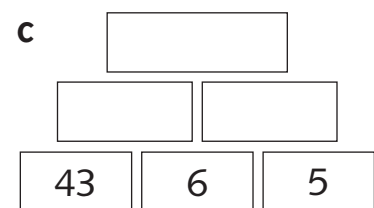
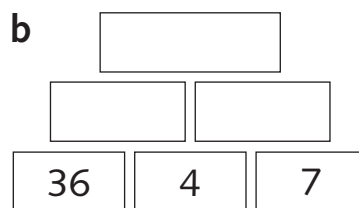
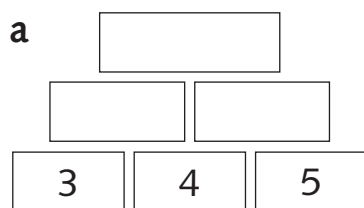
d 636×79

Challenge

3

For each calculation wall, multiply adjacent pairs of numbers in the bottom row, writing the answers in the "bricks" immediately above each pair of numbers. Then multiply the two numbers in the middle row, writing the answer in the top "brick".

Calculate the answers mentally for as long as you are able, then use the expanded written method.



Choose two of the calculations in Challenge 2. Explain and show an adult how you are able to work out these calculations using the partitioning method mentally. Give them two calculations to work out on the back of this sheet using the same method. Check their answers are the same as yours.