

Multiplication using partitioning and the grid method

Use the grid method to calculate $TO \times O$



Challenge 1

Approximate the answer to each calculation.

a 45×3 **b** 36×5 **c** 54×4 **d** 62×8
e 37×4 **f** 68×4 **g** 83×8 **h** 78×5

Challenge 2

Use the grid method to work out the answers to the calculations in Challenge 1. Match the answers to your calculations to one of these answers to see if you are correct.

Example

$$\begin{array}{r}
 63 \times 8 \\
 \times \quad 60 \quad 3 \\
 \hline
 8 \quad \boxed{480} \quad \boxed{24} = 504
 \end{array}$$

272 496 390 216 664 180 148 135

Challenge 3

Play this game with a partner.

- Each player takes turns to choose a number from the cards below and to spin the spinner.
- Estimate first, then multiply your two numbers. Show your working out.
- The person with the largest answer scores one point.
- Choose a different number card each time.
- The first person to score five points is the winner.

You will need:

- Resource 36: 2, 3, 4, 5, 8 and 10 spinner

65 38 42 27 39 84 16 72 83 78

