

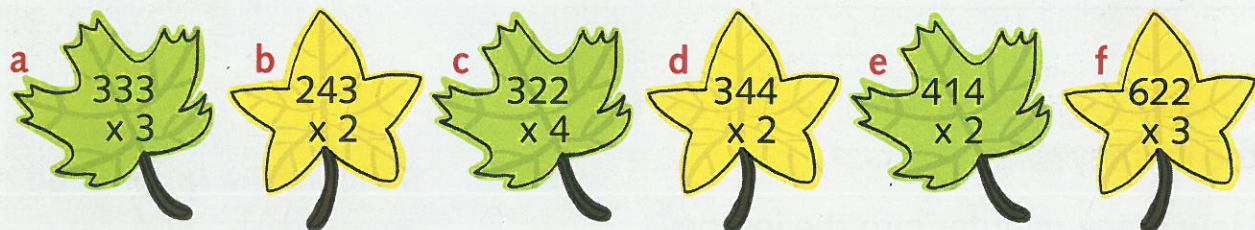
# Multiplication HTO x O using partitioning

Use partitioning to calculate HTO x O



- 1 a  $7 \times 2 =$       2 a  $4 \times 8 =$       3 a  $7 \times 4 =$   
 b  $70 \times 2 =$       b  $40 \times 8 =$       b  $70 \times 4 =$   
 c  $700 \times 2 =$       c  $400 \times 8 =$       c  $700 \times 4 =$
- 4 a  $9 \times 6 =$       5 a  $7 \times 7 =$       6 a  $9 \times 8 =$   
 b  $90 \times 6 =$       b  $70 \times 7 =$       b  $90 \times 8 =$   
 c  $900 \times 6 =$       c  $700 \times 7 =$       c  $900 \times 8 =$

Write the answer to each of these calculations. Work the answer out mentally, using partitioning.

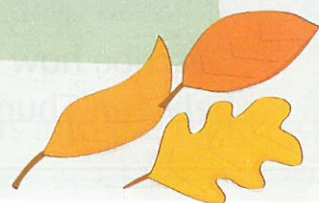


Estimate the answer first, then partition each of these calculations to work out the answer.

- a  $467 \times 4$       b  $468 \times 6$   
 c  $738 \times 4$       d  $383 \times 3$   
 e  $267 \times 9$       f  $691 \times 7$   
 g  $684 \times 5$       h  $794 \times 8$   
 i  $815 \times 9$       j  $609 \times 8$

## Example

$$\begin{aligned} 463 \times 5 &\rightarrow 500 \times 5 = 2500 \\ &= (400 \times 5) + (60 \times 5) + (3 \times 5) \\ &= 2000 + 300 + 15 \\ &= 2315 \end{aligned}$$



# Multiplication HTO x O using partitioning and the grid method

Use the grid method to calculate HTO x O

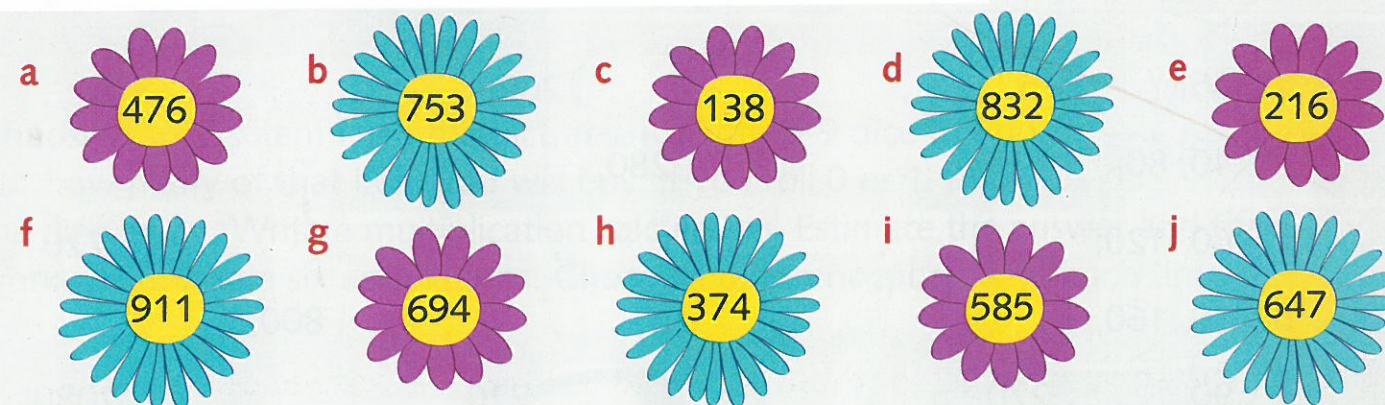


## Challenge 1

Write the multiples of 100 that each of these numbers is between. Circle the multiple of 100 it is closest to.

## Example

$$300 \leftarrow 386 \rightarrow 400$$

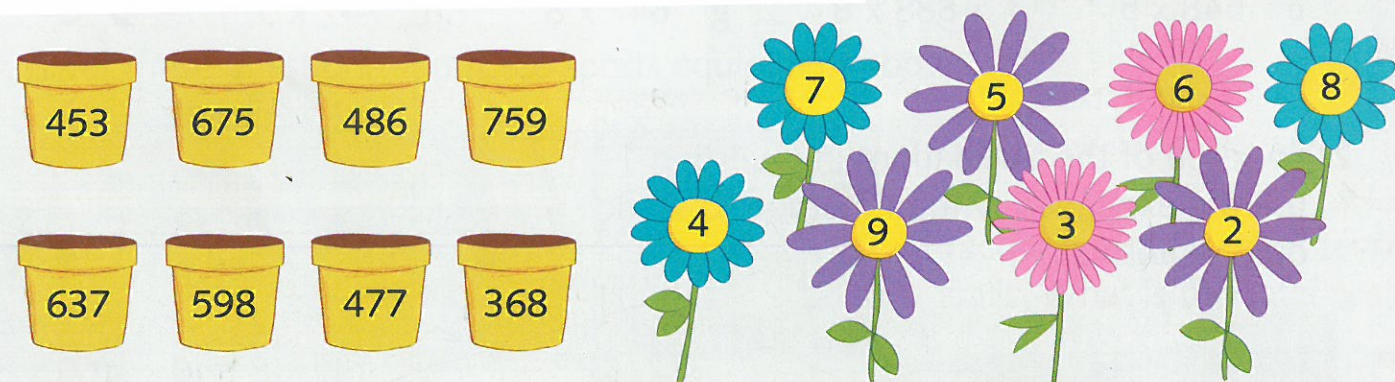


## Challenge 2

Choose a flower pot and a flower and multiply the numbers together. Estimate your answer first, then use the grid method to work out the answer. Make six calculations. Choose different numbers each time.

## Example

$$\begin{aligned} 625 \times 8 &\rightarrow 600 \times 8 = 4800 \\ \begin{array}{r} \times 600 \quad 20 \quad 5 \\ 8 \end{array} &\begin{array}{|c|c|c|} \hline 4800 & 160 & 40 \\ \hline \end{array} = 5000 \end{aligned}$$



## Challenge 3

One of these calculations is different to the others. Can you find out why?

$468 \times 4$        $624 \times 3$        $234 \times 8$        $732 \times 2$

