ultiplication T0 x T0 using partitioning nd the grid method

Use partitioning and the grid method to calculate TO × TO Estimate and check the answer to a calculation

Work out the answer to each calculation mentally.

 $a 6 \times 7$

b 50 × 8

c 60 \times 8

d 9 × 6

e 80 × 9

 $f 80 \times 40$

g 3 x 8

h 50 × 50

 $i 30 \times 70$

 140×30

k 40 × 9

70 × 8

 $m7 \times 9$

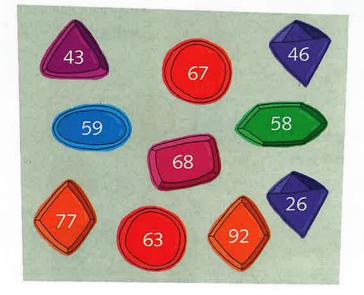
 $n 60 \times 6$

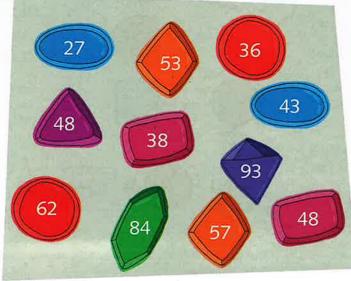
o 7 × 8

p 90 × 70

1 Choose a number from each box and create a multiplication calculation. Estimate the answer first. Multiply the numbers together using the grid method. Choose different numbers each time. Write at least eight calculations.

Example			
$63 \times 38 \rightarrow 60 \times 40 = 2400$			
×	60	3	2217
30	1800	90	1890
8	480	24	+ 504
			2394
			1





- 2 Find the answers to these problems about three weeks in a jewellery shop.
 - a Week 1: A jeweller has a sales target for sapphire earrings of £2500 for the week. One pair of earrings costs £84. If the jeweller sells 23 pairs of earrings in that week, how close is he to reaching the target?

Hint

Use the information in each problem to find the answer to the next problem.

- b Week 2: In Week 2 the sales target is increased by 10%. The jeweller sells 15 more pairs of sapphire earrings than the previous week. What is the difference between the target set and the actual sales?
- c Week 3: Ruby earrings cost $\frac{1}{3}$ less than sapphire earrings. In Week 3 the jeweller sells the same number of ruby earrings as he sold sapphire earrings in Weeks 1 and 2. How much money is taken on ruby earrings?

Find the missing digit or digits in each calculation.

a
$$19 \times 3 = 665$$

$$\times$$
 18 = 594

- 2 Write two different TO × TO calculations that give an answer of:
 - **a** 1000
- b 816
- c 736
- d 1650
- e 924
- f 700

