

# Division ThHTO ÷ TO using the formal written method

- Use the formal written method of long division to calculate ThHTO ÷ TO
- Estimate and check the answer to a calculation



Work out the answer to each calculation using mental methods or short division.

## Example

$$245 \div 4 = (240 + 5) \div 4 = 60 + 1 \text{ r } 1 = 61 \text{ r } 1$$

$$4 \overline{) 245} \begin{array}{r} 61 \text{ r } 1 \\ 24 \phantom{0} \\ \hline 5 \end{array}$$

a	÷ 4	b	÷ 8	c	÷ 6	d	÷ 9
i	329	i	357	i	378	i	279
ii	154	ii	435	ii	488	ii	549
iii	284	iii	256	iii	256	iii	631
iv	447	iv	188	iv	639	iv	452
v	208	v	571	v	565	v	723

For each division calculation write your estimate, then use the formal written method to work out the answer. Record any remainders as a fraction in its simplest form. Be sure to compare your answer with your estimate.

a

8436 ÷ 12

b

9875 ÷ 25

c

9352 ÷ 21

d

6464 ÷ 18

e

7370 ÷ 15

f

5391 ÷ 18

g

8866 ÷ 26

h

3080 ÷ 35

36

72

72

0

36

72

72

0

## Example

$$5832 \div 18 \rightarrow 6000 \div 20 = 300 \text{ or } 5400 \div 18 = 300$$

$$18 \overline{) 5832} \begin{array}{r} 324 \\ 54 \phantom{00} \\ \hline 43 \phantom{0} \\ 36 \phantom{00} \\ \hline 72 \\ 72 \phantom{00} \\ \hline 0 \end{array}$$

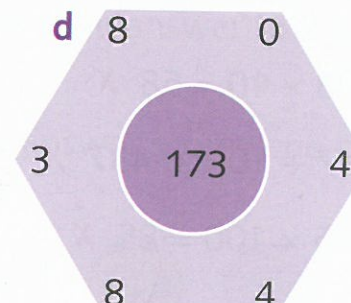
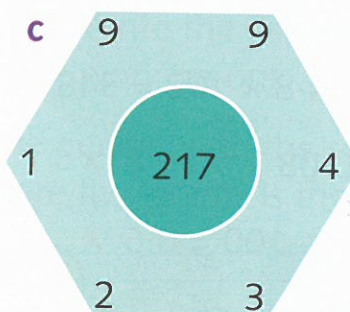
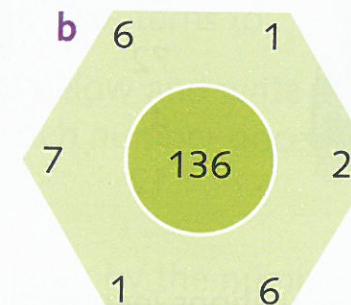
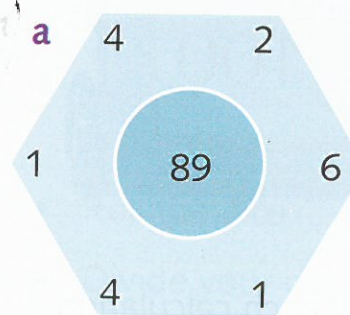
## Challenge 3

- Deepa is training for the marathon. Calculate how far she jogs per day over the periods of time shown below. Copy and complete the table. Show your working.



Period of time	1 day	1 week	1 fortnight	Month of May	6-week summer holidays
Total distance run (km)	14	182	392	1178	2016
Distance run per day (km)					

- Rearrange each set of 6 digits in the vertices of the hexagon to make a ThHTO ÷ TO division calculation that equals the number in the circle.



## Hint

- The four digits at the top of the hexagon are the digits that make up the 4-digit number.
- The two digits at the bottom of the hexagon are the digits that make up the 2-digit number.

