

Diving into Mastery



twinkl



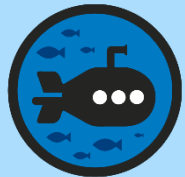
**Divide 4 Digits  
by 1 Digit**

# Diving into Mastery Guidance for Educators

Each activity sheet is split into three sections, diving, deeper and deepest, which are represented by the following icons:



**Diving**



**Deeper**



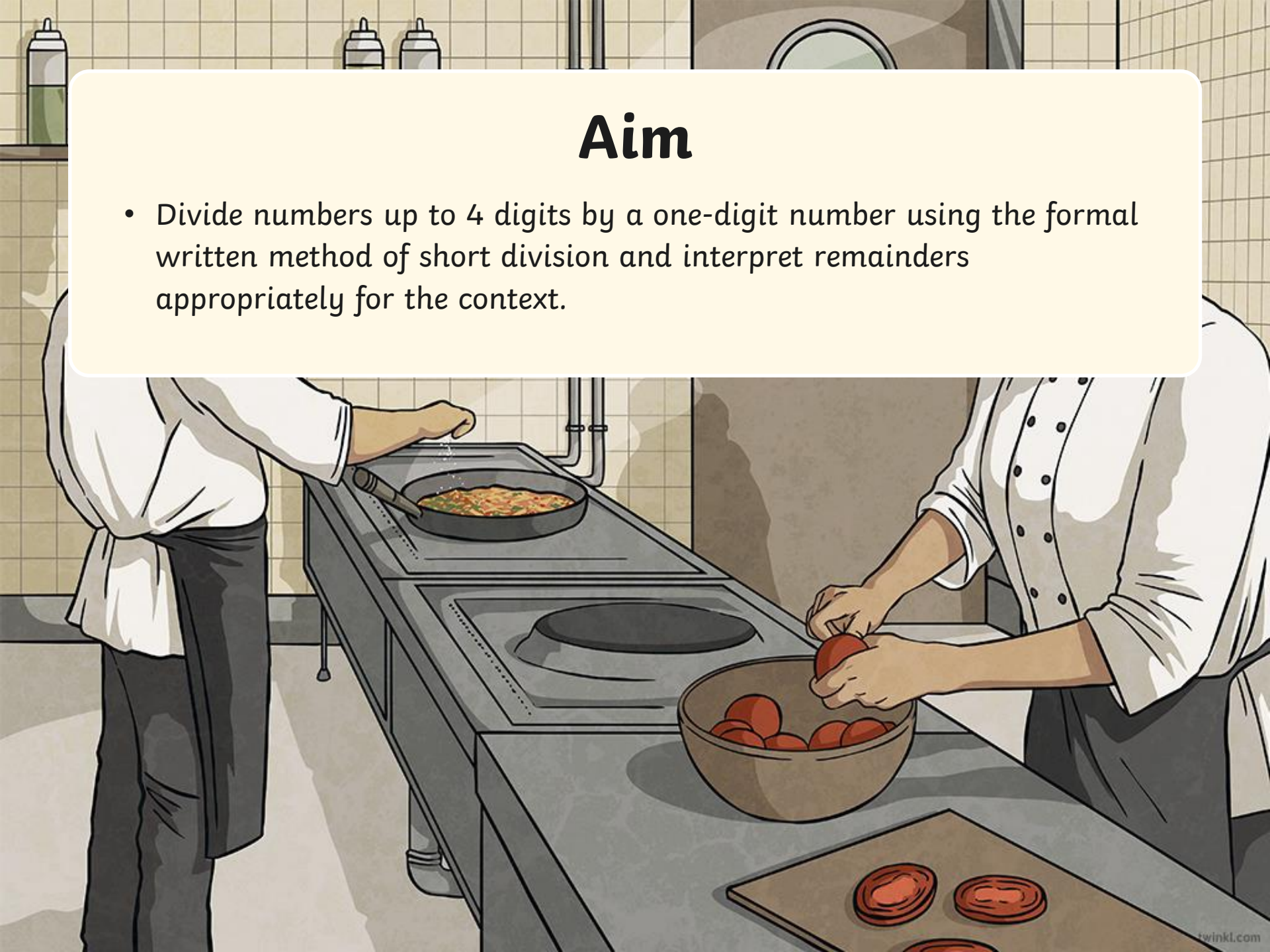
**Deepest**

These carefully designed activities take your children through a learning journey, initially ensuring they are fluent with the key concept being taught; then applying this to a range of reasoning and problem-solving activities.

These sheets might not necessarily be used in a linear way. Some children might begin at the 'Deeper' section and in fact, others may 'dive straight in' to the 'Deepest' section if they have already mastered the skill and are applying this to show their depth of understanding.

# Aim

- Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context.



# Divide 4 Digits by 1 Digit

## Diving

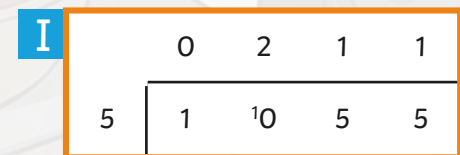
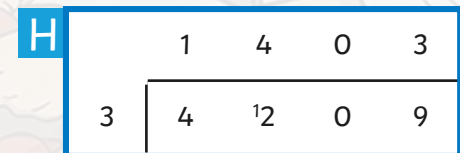
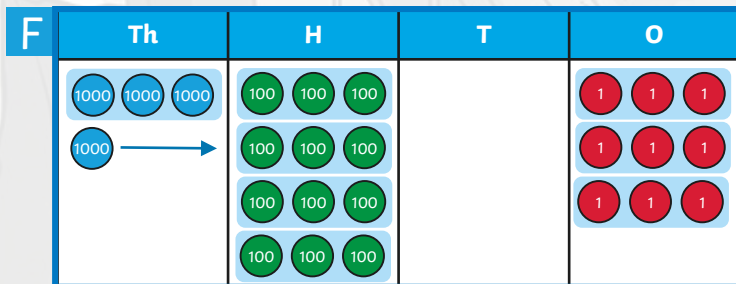
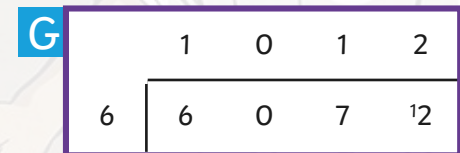
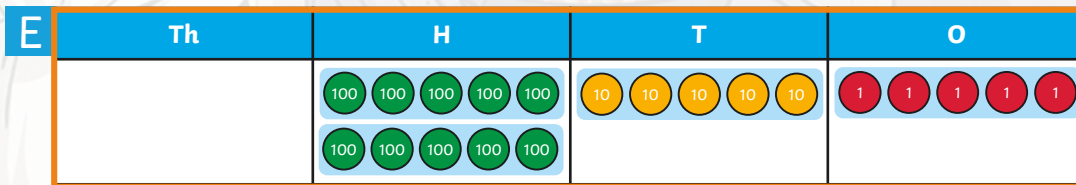
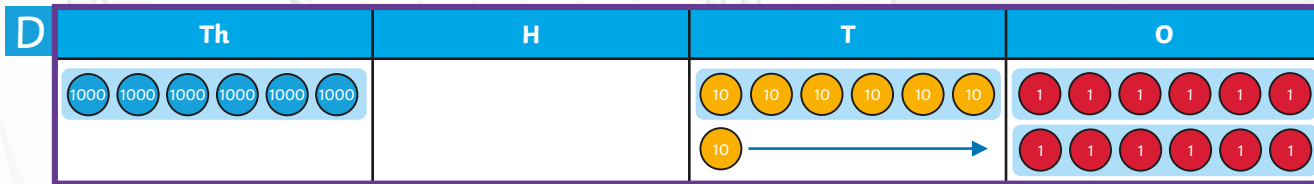


Match each division question with its place value representation and short division calculation. Click each division to reveal the answer.

**A**  $4209 \div 3 = 1403$

**B**  $1055 \div 5 = 211$

**C**  $6072 \div 6 = 1012$



## Divide 4 Digits by 1 Digit

## Diving



Copy and solve the division problems. Each problem will reveal the amount needed for each item on the Chef's shopping list. Complete the recipe for the chef and save the day!

$$\begin{array}{r} \text{a)} \\ 3 \overline{) 2172} \\ \underline{6} \phantom{5} \phantom{1} \phantom{6} \\ 6 \phantom{5} \phantom{1} \phantom{6} \\ \underline{6} \phantom{5} \phantom{1} \phantom{6} \\ 0 \phantom{5} \phantom{1} \phantom{6} \\ \underline{0} \phantom{5} \phantom{1} \phantom{6} \\ 0 \phantom{5} \phantom{1} \phantom{6} \\ \underline{0} \phantom{5} \phantom{1} \phantom{6} \\ 0 \phantom{5} \phantom{1} \phantom{6} \end{array}$$

$$\begin{array}{r} \text{b)} \\ 4 \overline{) 1142} \\ \underline{4} \phantom{5} \phantom{6} \phantom{8} \\ 4 \phantom{5} \phantom{6} \phantom{8} \\ \underline{4} \phantom{5} \phantom{6} \phantom{8} \\ 0 \phantom{5} \phantom{6} \phantom{8} \\ \underline{0} \phantom{5} \phantom{6} \phantom{8} \\ 0 \phantom{5} \phantom{6} \phantom{8} \\ \underline{0} \phantom{5} \phantom{6} \phantom{8} \\ 0 \phantom{5} \phantom{6} \phantom{8} \end{array}$$

$$\text{c) } 8414 \div 7 = 1202$$

$$\text{d) } 8406 \div 6 = 1401$$

### Chef's Shopping List

a) 2172 kg flour

b) 1142 ml milk

c) 1202 kg sugar

d) 1401 ml cream

## Divide 4 Digits by 1 Digit

### Deeper



Fernando the chef is trying to complete a calculation for ingredients. He has started but is stuck and doesn't know what to do next. Why is Fernando stuck? Explain your thinking and work out the calculation for him.

Fernando has incorrectly calculated 21(hundreds) divided by 7 as 2(hundreds) when it should be 3. He's stuck because 88 divided by 7 will give a 2 digit answer. The correct calculation is:

		<b>3</b>	<b>1</b>	<b>2</b>
7		21	8	14



## Divide 4 Digits by 1 Digit

## Deepest



Can you identify the missing digits in these calculations?

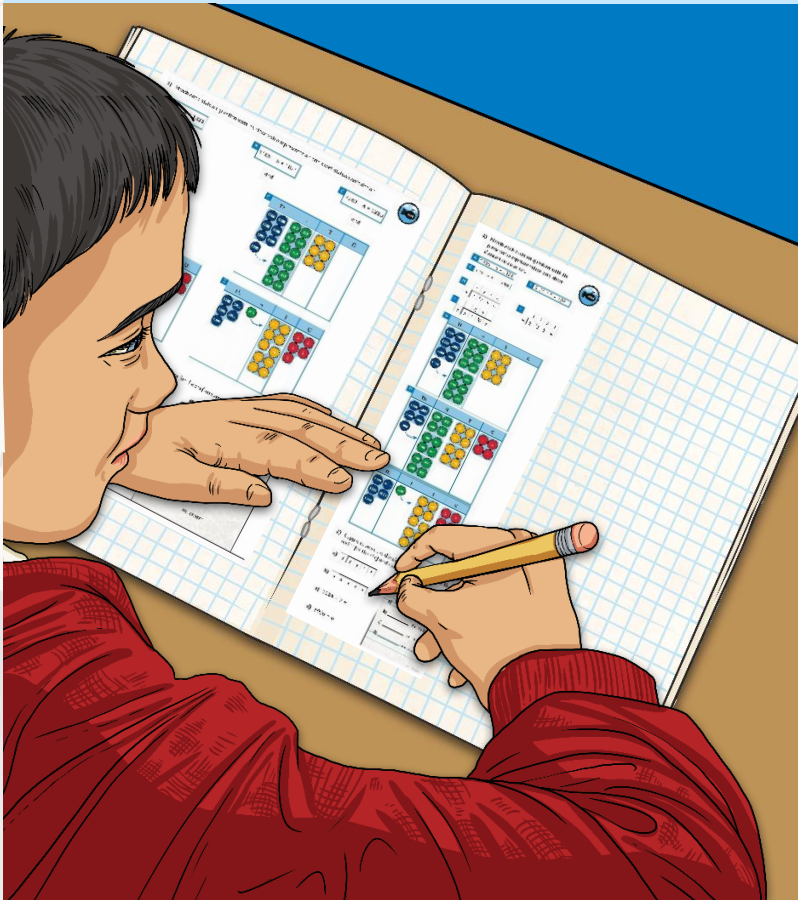
$$\begin{array}{r} 724 \\ 4 \overline{) 2896} \end{array}$$

$$\begin{array}{r} 2428 \\ 3 \overline{) 7284} \end{array}$$



# Divide 4 Digits by 1 Digit

Dive in by completing your own activity!



1) Fernando the chef has prepared per day he will be able to serve. work out the correct answer.

$$\begin{array}{r} 122 \\ 8 \overline{) 824} \end{array}$$

2) Daniel makes puddings. He has remaining flour will last. He has Prove it!

$$\begin{array}{r} 9 \\ 4 \overline{) 365} \end{array}$$

1) Match each division question with its place value representation and short division calculation.

A  $5264 \div 4 = 1321$

B  $3105 \div 5 = 1021$

C  $7260 \div 6 = 1210$

and \_\_\_\_\_

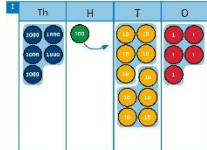
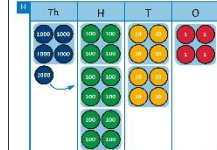
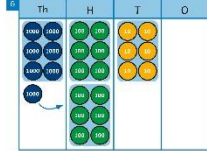
and \_\_\_\_\_

and \_\_\_\_\_

D  $\begin{array}{r} 1210 \\ 6 \overline{) 7260} \end{array}$

E  $\begin{array}{r} 1321 \\ 4 \overline{) 5284} \end{array}$

F  $\begin{array}{r} 1021 \\ 5 \overline{) 5105} \end{array}$



2) Copy and solve the division problems. Complete the recipe for the chef and save the day!

- a)  $\begin{array}{r} 3 \\ 3 \overline{) 3516} \end{array}$
- b)  $\begin{array}{r} 5 \\ 4 \overline{) 535} \end{array}$
- c)  $9114 \div 7 = \begin{array}{|c|c|c|c|} \hline & & & \\ \hline \end{array}$
- d)  $6906 \div 6 = \begin{array}{|c|c|c|c|} \hline & & & \\ \hline \end{array}$

**Chef's Shopping List**

- a) \_\_\_\_\_ kg flour
- b) \_\_\_\_\_ ml milk
- c) \_\_\_\_\_ kg sugar
- d) \_\_\_\_\_ ml cream

# Need Planning to Complement this Resource?

## National Curriculum Aim

Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context.

For more planning resources to support this aim, [click here](#).

This screenshot displays three resource cards for 'Left-Luggage Short Division'. The first card, 'Checkout', shows two women at a shop counter. The second card, 'Left-Luggage Short Division', features a large play button icon. The third card, 'Inverse Check', shows a multiplication problem: 
$$\begin{array}{r} 112 \\ 4 \overline{) 4472} \\ \underline{44} \phantom{72} \\ 0 \phantom{72} \\ \underline{0} \phantom{72} \\ 0 \phantom{72} \\ \underline{0} \phantom{72} \\ 0 \phantom{72} \end{array}$$
 Below the cards are three worksheets: 'Multiplication and Division: Left-Luggage Short Division', 'Left-Lug', and 'Left-Luggage Division'. The Twinkl Planit logo is visible in the bottom right corner.

This screenshot displays three resource cards for 'Radiant Reminders'. The first card, 'Buddies', shows various decimal fractions like  $\frac{1}{2}$ ,  $\frac{1}{10}$ ,  $\frac{1}{4}$ ,  $\frac{1}{5}$ ,  $0.1$ ,  $0.75$ ,  $0.5$ ,  $0.2$ , and  $0.125$ . The second card, 'Radiant Reminders', features a large play button icon. The third card, 'Have a Go!', shows a woman in a shop. Below the cards are three worksheets: 'Multiplication and Division: Radiant Reminders', 'Radiant', and 'Radiant Reminders'. The Twinkl Planit logo is visible in the bottom right corner.

Twinkl Planit is our award-winning scheme of work with over 4000 resources.





twinkl