

Use short division to divide 4-digit numbers by 1-digit numbers.

$$2537 \div 3$$

$$3 \overline{) 2537}$$

? About how many 3s
are in 2537?

$800 \times 3 = 2400$,
so the answer
must be a bit
more than 800.

Use short division to divide 4-digit numbers by 1-digit numbers.

We are going to move a sticky note along to hide and reveal each column in turn.

$$3 \overline{) 2 \square \square \square}$$



How many 3s in 2?
None, so move the next sticky.



How many 3s in 25?

Use short division to divide 4-digit numbers by 1-digit numbers.

8, and 1 left over.
We write 8 in the 100s column as
we are dividing the 100s, then 1
hundred in front of the 10s digit.

$$\begin{array}{r} 8 \\ 3 \overline{) 251} \end{array}$$

?

How many 3s in 13?

Use short division to divide 4-digit numbers by 1-digit numbers.

$$\begin{array}{r} 84 \\ 3 \overline{) 2513} \end{array}$$

4, and 1 left over.
We write 4 in the 10s column as
we are dividing the 10s, then 1
ten in front of the 1s digit.

?

How many 3s in 17?

Use short division to divide 4-digit numbers by 1-digit numbers.
Divide remainders to give fractions; round answers up or down.

$$\begin{array}{r} 845 \text{ r } 2 \\ 3 \overline{) 25137} \end{array}$$

5, and 2 left over.
We write 5 in the 1s column.

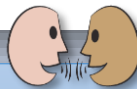
We can divide the
remainder 2 by 3.

The exact answer is $845\frac{2}{3}$.

Use short division to divide 4-digit numbers by 1-digit numbers.
Divide remainders to give fractions; round answers up or down.

One answer needs us to **round up**, one to **round down** the answer, another to **divide the remainder to give a fraction** and another to **write the equivalent decimal**.

1. How many whole weeks are there in 365 days?
2. How many packets of 4 chocolate bars can be made using 535 bars?
3. How many boxes of 6 eggs must be bought if we need 253 eggs?
4. A piece of material 562cm long is used to make curtains. It is cut into 4 equal lengths. How long is each curtain?



Think and reason about what to do with the remainders, before you calculate the answers.