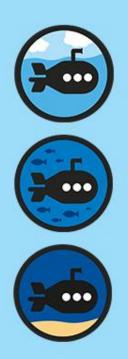
Diving into Mastery

twinkl

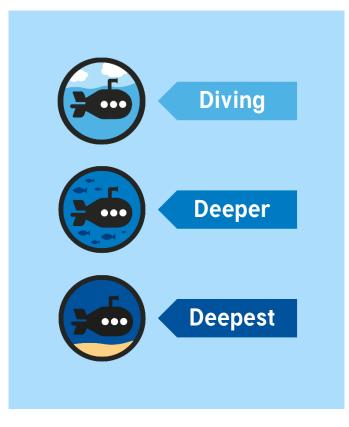


Divide by 10, 100 and 1000



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:

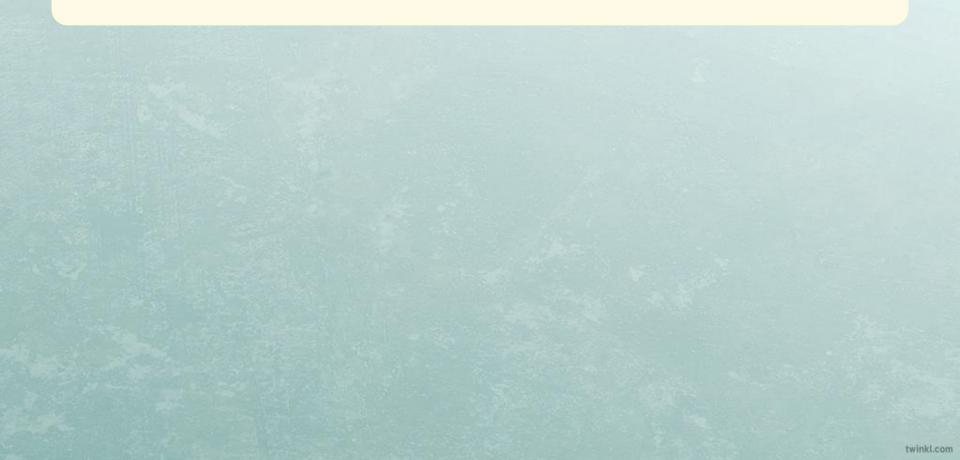


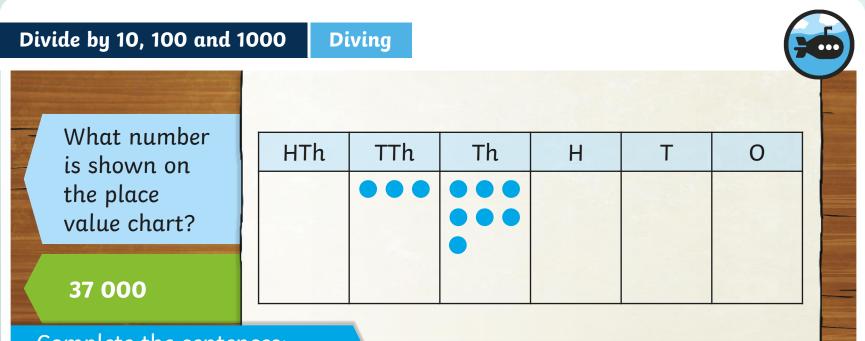
These carefully designed activities take your children through a learning journey, initially ensuring they are fluent with the key concept being taught; then applying this to a range of reasoning and problem-solving activities.

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

• Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000.





Complete the sentences:

If I divide this number by 10, it becomes <u>3700</u>. The digits move <u>one</u> place to the <u>right</u>.

If I divide this number by 100, it becomes <u>370</u>. The digits move <u>two</u> places to the <u>right</u>.

If I divide this number by 1000, it becomes <u>37</u>. The digits move <u>three</u> places to the <u>right</u>.



How many decades are there in...

Diving

3750 years? 375 decades90 230 years? 9023 decades

How many centuries are there in...

65 500 years? 655 centuries320 100 years? 3201 centuries

How many millennia are there in...

62 000 years? 62 millennia 804 000 years? 804 millennia Complete these calculations:

6500 ÷ <u>100</u> = 65

52 700 ÷ 100 = 527

632 000 ÷ 1000 = <u>632</u>

Mon	Tue	Wed	Thur	Fri	Sat	Sun
			1	2	3	4
5	6	7	8	9	10	11
5	0	/	0	7	10	
12	13	14	15	16	17	18
18	19	20	21	22	23	24

Divide by 10, 100 and 1000 Deeper

To divide by 1000, I can divide by 10, then divide by 10 and divide by 10 again.

Do you agree with Jason? Explain your thinking.



Jason is correct.

 $10 \times 10 \times 10 = 1000$ Therefore, dividing by 10 three times is the same as dividing by 1000. TWINKI

1 00

7 pqr

Deeper

Using the clues below, can you work out the ages of these new planets?

- Vesta is 100 times younger than Athena.
- Athena is double the age of Vulcan.
- Juno is 10 times younger than Athena.
- Ceres is 1000 times younger than Vulcan.
- Vulcan is 206 000 years old.
- Apollo is 1000 times younger than Athena.



Deepest

Insert each of the numbers, **10**, **100** and **1000**, to make this statement true.

How many solutions are there?

There are 2 solutions:

43 000 ÷ 1000 < 527 000 ÷ 10 > 65 000 ÷ 100 Rgssible solutions include the following: \div 1000 A = 72 000 B = 850 000





Dive in by completing your own activity!

