

Diving into Mastery



# Divide 2 Digits by 1 Digit (1)

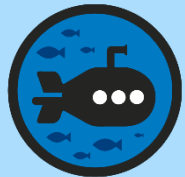
twinkl

# 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

- Pupils practise to become fluent in the formal written method of short multiplication and short division with exact answers (non-statutory).

# Divide 2 Digits by 1 Digit (1)

## Diving



Complete this calculation.

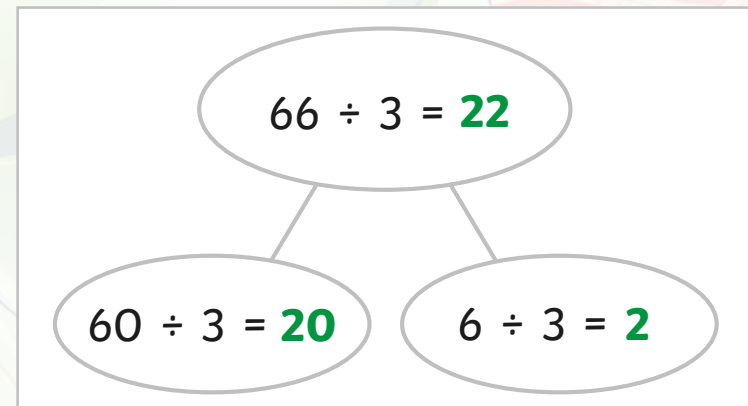
$$66 \div 3 = 22$$



Place Value Counters

T	O

Part-Whole Model



## Divide 2 Digits by 1 Digit (1)

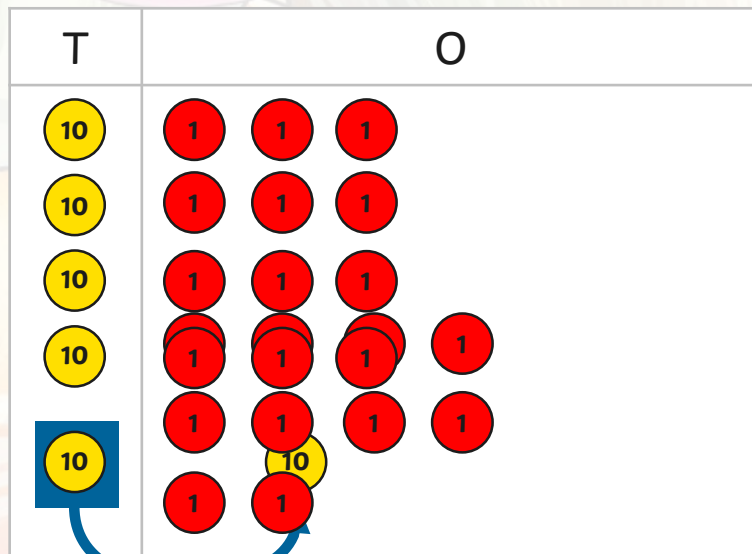
## Diving



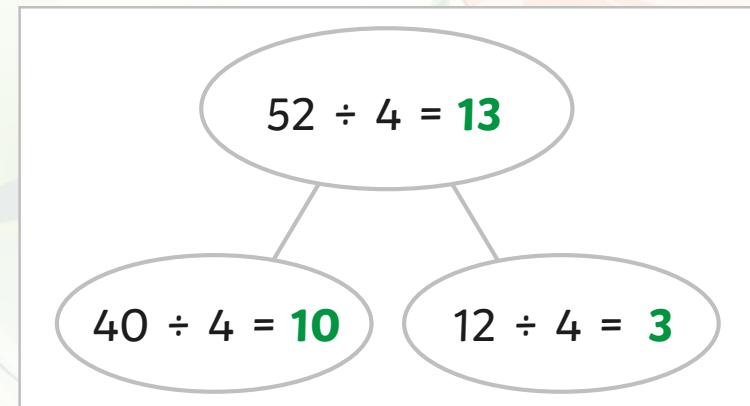
Complete this calculation.

$$52 \div 4 = 13$$

Place Value Counters



Part-Whole Model





Use the part-whole models to find the missing numbers.

$$\boxed{72} \div 4 = 18$$

$$84 \div \boxed{6} = 14$$

$$\boxed{40} \div 4 = 10$$

$$32 \div 4 = \boxed{8}$$

$$60 \div \boxed{6} = 10$$

$$\boxed{24} \div 6 = 4$$



## Divide 2 Digits by 1 Digit (1)

## Diving



Solve this word problem.

Becky, Jack and Seb are sharing the 54 marbles equally. How many marbles will they each get?



$$54 \div 3 = 18$$



Read the statement below. Is it true or false? Explain your answer.



If I divide a whole number by another whole number, my answer will always be smaller than the number I started with.

True. This is because you are sharing out the whole into equal parts to find the value of one of the parts. For example, 6 divided by 3 equals 2. I started with 6 and now I have 2. 2 is smaller than 6.

## Divide 2 Digits by 1 Digit (1)

## Deeper



Which is the odd one out and why?

A

$$78 \div 6 = 13$$

B

$$99 \div 3 = 33$$

C

$$88 \div 2 = 42$$



C is the odd one out because the answer to the calculation is incorrect. The answer should be 44.

## Divide 2 Digits by 1 Digit (1)

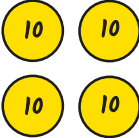
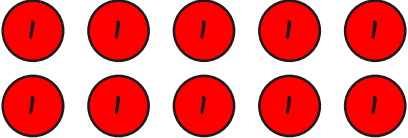

### Deeper



Identify, correct and explain the mistake Lyle has made.



$56 \div 2 = 25$

T	O
	
	

A blue arrow points from the yellow 10 counter in the bottom-left cell to the red 1 counters in the top-right cell.

Lyle has not exchanged correctly. He has made the existing ones total of 6 up to 10, rather than adding an additional 10 counters to the amount that is already there to make 16 ones. The answer should be 28.

## Divide 2 Digits by 1 Digit (1)

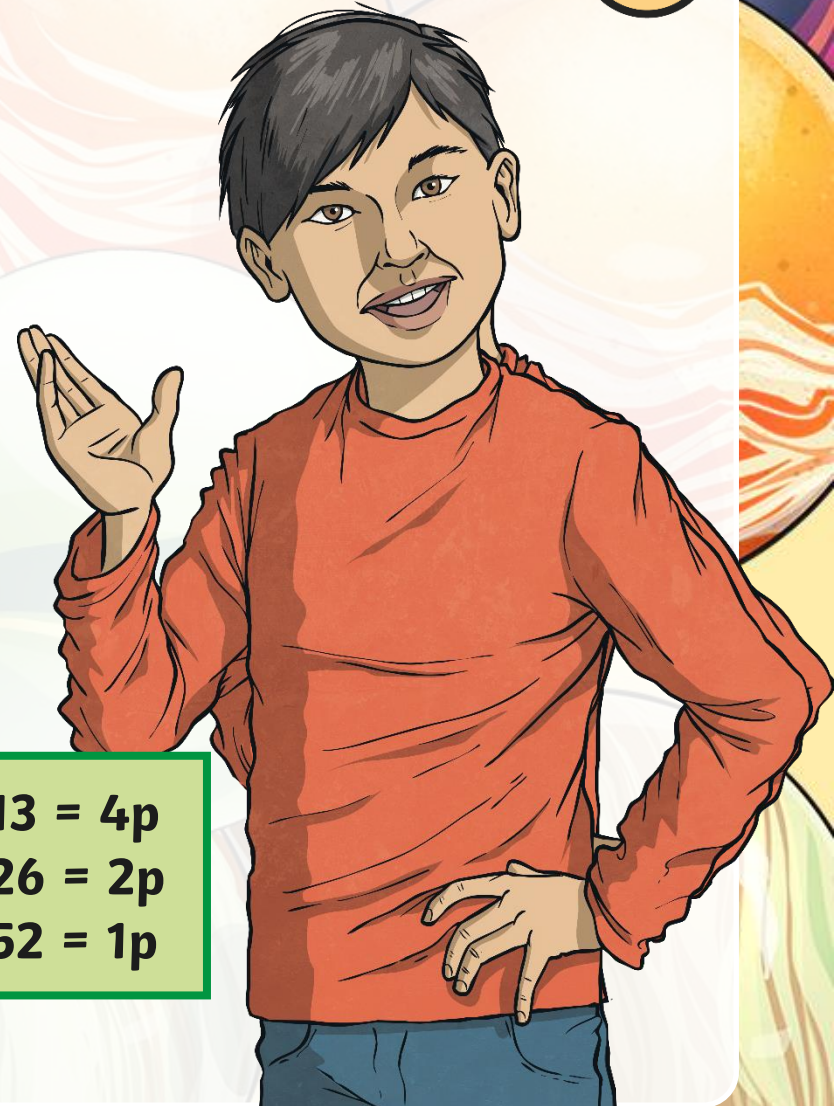
## Deepest



Count the money. How many ways could you share this amount so that nothing was left over? Find all possibilities and record your calculations



$52p \div 1 = 52p$	$52 \div 13 = 4p$
$52p \div 2 = 26p$	$52 \div 26 = 2p$
$52p \div 4 = 13p$	$52 \div 52 = 1p$

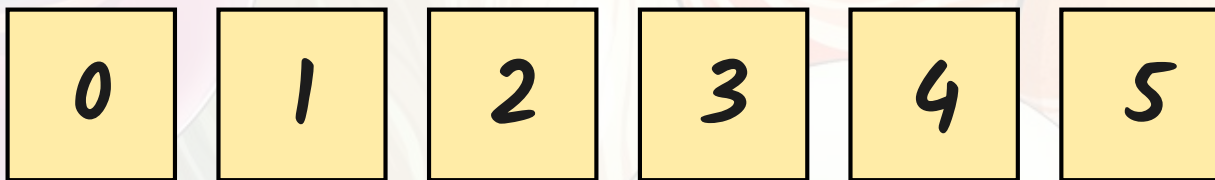


## Divide 2 Digits by 1 Digit (1)

## Deepest



Using the digit cards below, complete the number statements. Each digit card may only be used once per solution. Find 5 possible solutions.



\_\_\_ ÷ \_\_\_ > \_\_\_ ÷ \_\_\_

There are many possible answers. Here are some examples.

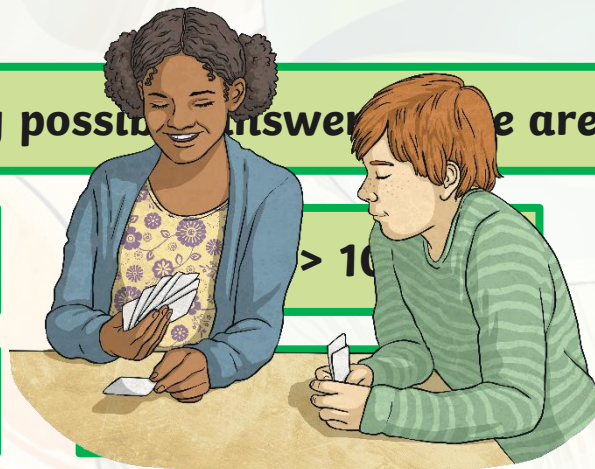
$$45 \div 3 > 10 \div 2$$

$$35 \div 1 > 40 \div 2$$

$$> 10$$

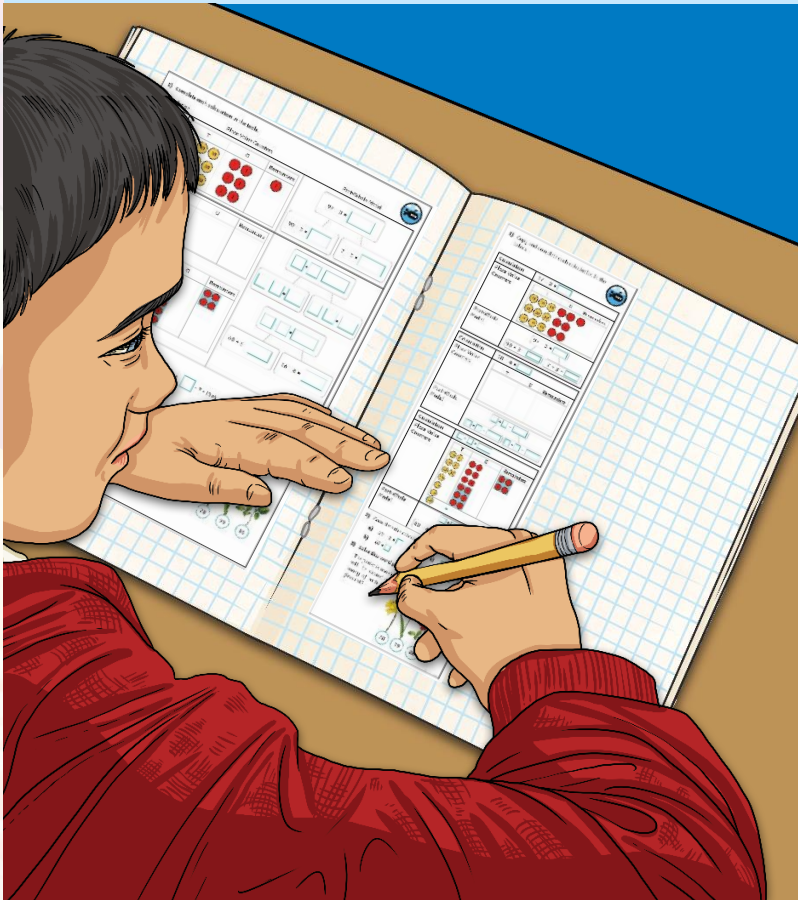
$$34 \div 1 > 50 \div 2$$

$$40 \div 2 > 15 \div 3$$



# Divide 2 Digits by 1 Digit (1)

Dive in by completing your own activity!



1) Read the statement below. Do you agree or disagree? Explain your answer.



If you divide by a higher number, you can have a higher remainder.

2) Which is the odd one out and why?

- a)  $88 \div 4 =$
- b)  $51 \div 3 =$
- c)  $62 \div 6 =$
- d)  $84 \div 7 =$

3) Francis, Usman and Gina have 80 sweets. Explain who is correct and who is wrong. Eighty-seven shared into equal shares.

1) Complete each calculation in the table.

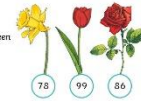
Calculation	Place Value Counters	Remainders	Part-Whole Model				
$97 \div 3 =$	<table border="1"> <tr> <th>T</th> <th>O</th> </tr> <tr> <td> </td> <td> </td> </tr> </table>	T	O				$97 \div 3 =$ 
T	O						
$58 \div 4 =$	<table border="1"> <tr> <th>T</th> <th>O</th> </tr> <tr> <td> </td> <td> </td> </tr> </table>	T	O				
T	O						
$60 \div 6 =$	<table border="1"> <tr> <th>T</th> <th>O</th> </tr> <tr> <td> </td> <td> </td> </tr> </table>	T	O				$60 \div 6 =$ 
T	O						

2) Complete the calculations.

- a)  $59 \div 3 =$
- b)  $67 \div 4 =$
- c)  $73 \div 7 =$
- d)  $47 \div 5 =$

3) Solve this word problem.

The florist is making 6 bouquets of flowers. The flowers will be shared equally between each bouquet. How many of each flower will be leftover when she has finished?



# Need Planning to Complement this Resource?

## National Curriculum Aim

Pupils practise to become fluent in the formal written method of short multiplication and short division with exact answers (non-statutory).

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

This screenshot displays three resource cards from the Twinkl Planit library. The top row includes 'The Short Method for Division' (showing a long division problem  $96 \div 4 = 24$ ), 'Short Division' (with a play button icon), and 'Dividing Larger Numbers' (showing  $3465 \div 5 = 693$ ). The bottom row features 'Multiplication and Division: Short Division' (a worksheet), 'Family Trees' (a worksheet with a family tree diagram), and the Twinkl Planit logo.

This screenshot displays three resource cards from the Twinkl Planit library. The top row includes 'The Short Method for Division' (showing  $26 \div 4 = 6$ ), 'Short Division with Remainders' (with a play button icon), and 'What's Missing?' (a worksheet with a number line). The bottom row features 'Multiplication and Division: Remainders' (a worksheet), 'Short Division with Remainders' (a worksheet), and the Twinkl Planit logo.

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





twinkl