# Year 4: Week 1, Day 5 Written division

Each day covers one maths topic. It should take you about 1 hour or just a little more.

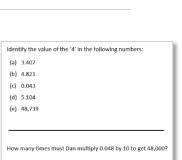
1. Start by reading through the Learning Reminders. They come from our *PowerPoint* slides.

 Tackle the questions on the Practice Sheet. There might be a choice of either Mild (easier) or Hot (harder)! Check the answers.

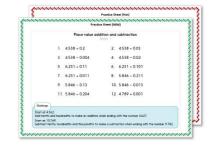
3. Finding it tricky? That's OK... have a go with a grown-up at A Bit Stuck?

 Have I mastered the topic? A few questions to Check your understanding.
 Fold the page to hide the answers!



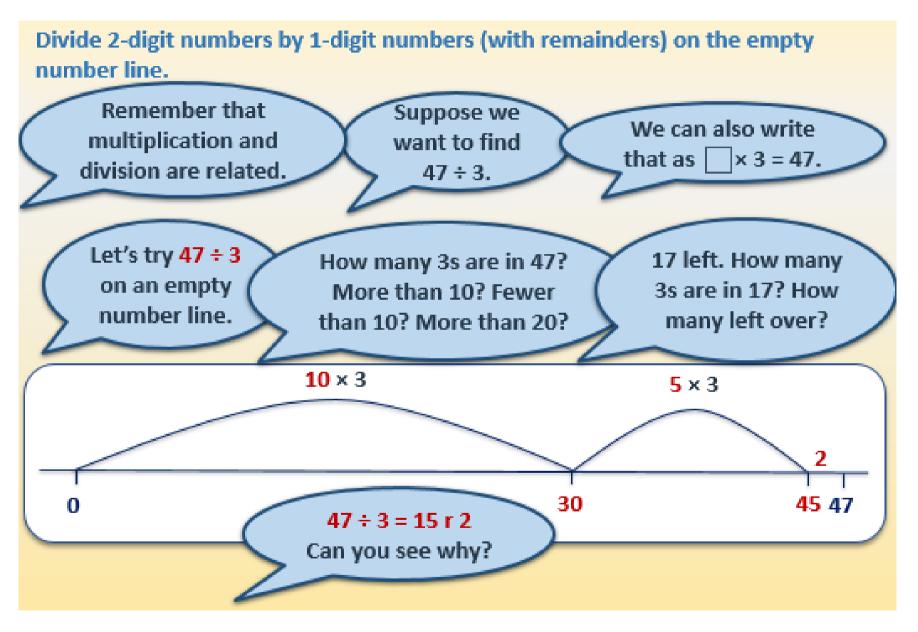


What number is one hundred times smaller than 0.4?

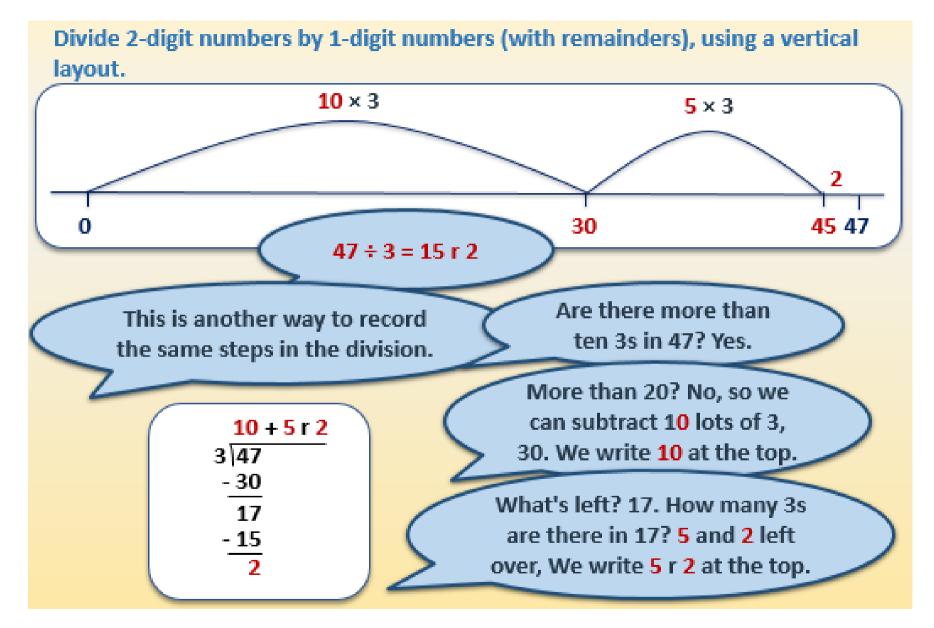




### **Learning Reminders**

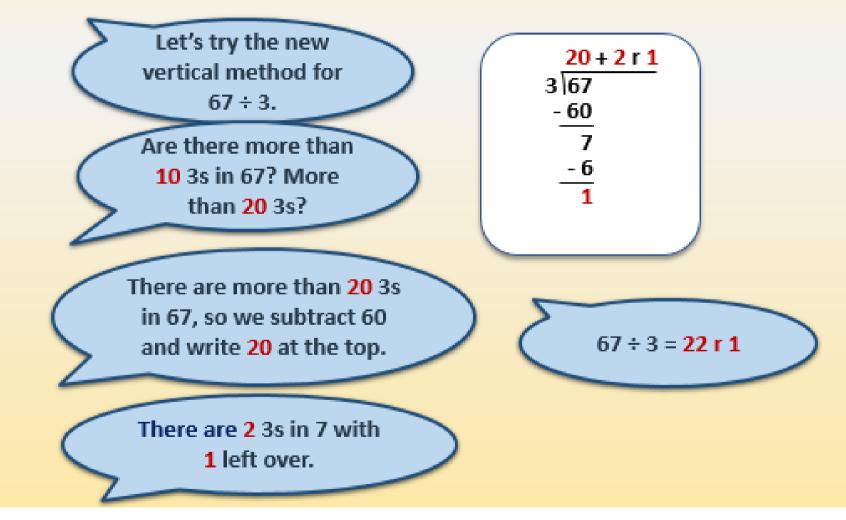


### **Learning Reminders**



### **Learning Reminders**

Divide 2-digit numbers by 1-digit numbers (with remainders), using a vertical layout.



		Practice Sheet Mild Dividing with remainders		
•	38 ÷ 3	43 ÷ 3	56 ÷ 3	• * •
•	47 ÷ 4	54 ÷ 4	59 ÷ 4	•
*	53 ÷ 5	61 ÷ 5	74 ÷ 5	*
•	Challenge			•
•	Write three different divisions whe • A 2-digit number is divided • The answer is more than 15 • The remainder is 2	by 3		•
•	© Hamilton Trust		• • • • • • • •	•

				rice Sheet H with remain			
	1.	77 ÷ 5	6.	93 ÷ 4	11.	107 ÷ 4	
	2.	113 ÷ 5	7.	86 ÷ 6	12.	137 ÷ 5	
	3.	53 ÷ 4	8.	100 ÷ 9	13.	98 ÷ 6	
	4.	75 ÷ 6	9.	80 ÷ 3	14.	117 ÷ 6	
	5.	70 ÷ 3	10.	97 ÷ 5	15.	120 ÷ 9	
Challenge							
• A 2-dig	it num wer is	t divisions where aber is divided b more than 15 r is 2		ents are true:			
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	Practice S	Sheet Answers	
)ividina wi	h remainders (mild)		
_			
8 ÷ 3 = 12 r2		$56 \div 3 = 18 \text{ r2}$	
17 ÷ 4 = 11 r3 3 ÷ 5 = 10 r3		59 ÷ 4 = 14 r3 74 ÷ 5 = 14 r4	
5 - J - 1013	01 ÷ 5 = 12 11	74 ÷ 5 – 1414	
Challeng	· )		
Write three o	ifferent divisions where these stat	tements are true:	
	digit number is divided by 3		
	answer is more than 15 remainder is 2		
		9 r2 23 ÷ 3 = 7 r2 74 ÷ 3 = 24 r2 65 ÷ 3 = 21 r2	
Dividing wi	h remainders (hot)		
77÷5	= 15 r2		
	5 = 22 r3		
	= 13 r1		
. 75÷€	= 12 r3		
. 70÷3	= 23 r1		
	= 23 r1		
	= 14 r2		
	9 = 11 r1		
	= 26 r2 = 19 r2		
	$4 = 26 r^{3}$		
	5 = 27 r2		
	= 16 r2		
	6 = 19 r3		
.5. 120÷	9 = 13 r3		
Challeng			
	different divisions where these st	atomonte aro truc.	
	2-digit number is divided by 3	arements are true.	
	e answer is more than 15		
۰Tł	e remainder is 2		
e.g. 59	÷ 3 = 19 r2 71 ÷ 3 = 23 r2 89 ÷ 3 =	29 r2 23 ÷ 3 = 7 r2 74 ÷ 3 = 24 r2 65 ÷ 3 = 21 r2	

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A Bit Stuck? Left overs

#### Work in pairs, but record your work on your own sheet.

- Things you will need:
- 0 to 100 beaded lines
- A pencil

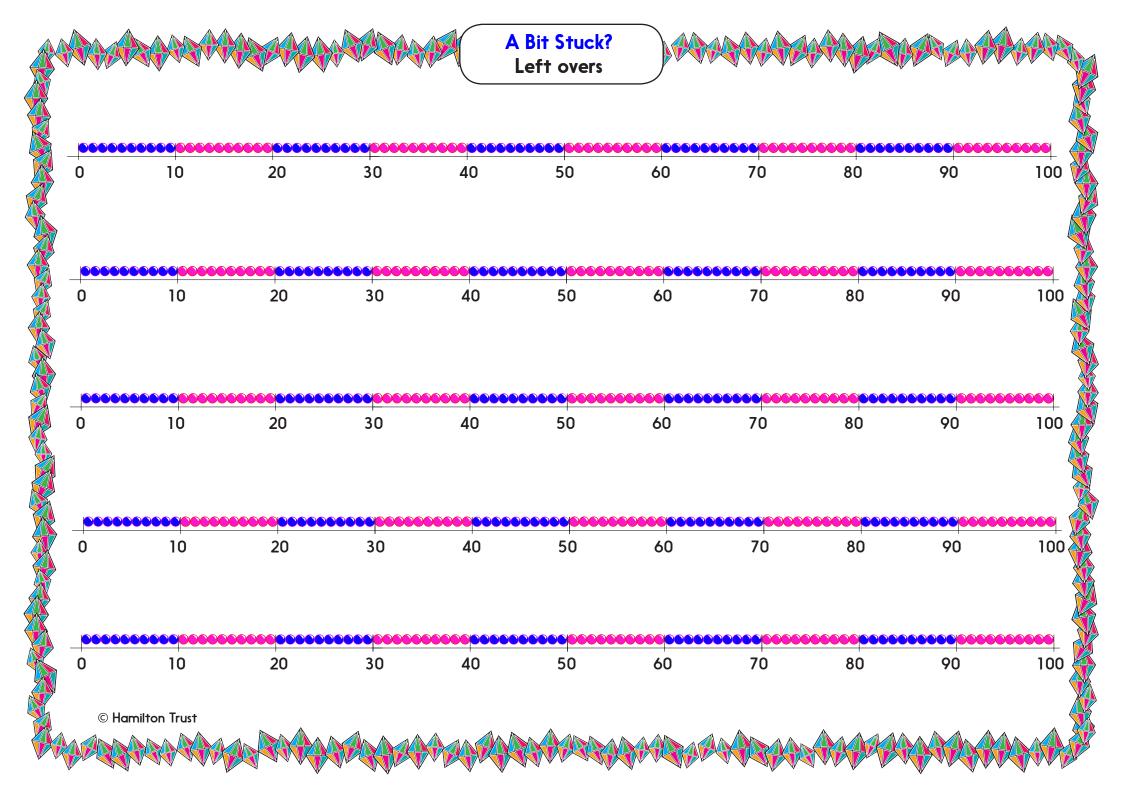
#### What to do:

- Use chunking to work out the answers to these divisions.
- Remember to draw a big jump of 10 times the number you are dividing by. Then look to see how much is left.
- Work out at least five answers.

**S-t-r-e-t-c-h**: Draw your own number line jottings to work out the answers.

#### Learning outcomes:

- I can use chunking on a beaded line to divide numbers just beyond the times tables (with remainders).
- I am beginning to draft my own number line jottings when using chunking (with remainders).



# Check your understanding Questions

Draw a number line to solve these two divisions.

(i) 115 ÷ 5

(ii) 65 ÷ 5

What is the relationship between the 2<sup>nd</sup> hop on the two lines?

Look at the remainders in each of these divisions. Compare the remainder with the divisor.

(a) 54 ÷ 4
(b) 99 ÷ 6

(C) 100 ÷ 8

Can you write another division where the remainder is half the divisor?

Fole here to hide answers

# Check your understanding Answers

Use a number line to solve these two divisions.

(i) 115 ÷ 5 23 (Jumps of 20 and 3).

(ii) 65 ÷ 5 13 (Jumps of 10 and 3)

What is the relationship between the 2<sup>nd</sup> hop on the two lines? In each case it is how many 5s in 15.

Look at the remainders in each of these divisions.

Compare the remainder with the divisor.

- (a)  $54 \div 4 \ 13 \ r \ 2$
- (b)  $99 \div 6 \ 16 \ r \ 3$
- (C)  $100 \div 8 \ 12 \ r \ 4$

Can you write another division where the remainder is half the divisor? Many possible answers – in each case the number divided will be halfway between two multiples of the divisor.