The Short Method for Division

74 ÷ 4 =

- 1. Draw this out neatly with a ruler. It looks a bit like a bus stop, so the written method for division is sometimes known as the 'Bus Stop' method.
- 2. Write the number you are dividing by, the **divisor**, in front of the vertical line.
 - 4
- 3. Write the number that is being divided, the **dividend**, on the right-hand side of the vertical line.

4 7 6

4. The answer will go on top of the vertical line.

Step 1

Share 7 tens into four groups. There is 1 ten in each group with 3 tens left over. We write the 1 above the line and regroup the remaining 3 tens into 30 ones, moving this to the next column.

$$4 \begin{bmatrix} 1 \\ 7 \\ 6 \end{bmatrix}$$

Step 2

How many 4s are there in 36? There are 9 exactly, so we write this above the line.

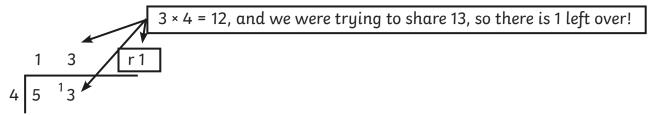
$$\begin{array}{c} 1 \quad 9 \\ 4 \quad 7 \quad 6 \end{array}$$



Remainders

53 ÷ 4 = **13 r1**

- 1. Share 5 tens into 4 groups. There is 1 ten in each group with 1 ten left over. We write the 1 above the line and regroup the left over ten onto the next column to make 13.
- 2. Share 13 into 4 groups? We can make 4 groups of 3, so we write 3 above the bus stop.
- 3. There is 1 left over. This is a remainder. So we write r1 on the line.



When the Divisor Is Greater Than the First Number in the Bus Stop

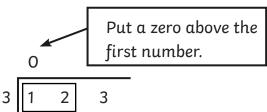
If the divisor is greater than the first number in the bus stop, you consider **both** the first and second number.

$$123 \div 3 =$$

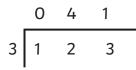
Instead of sharing 1 hundred into 3 groups

You can share 12 tens into 3 groups





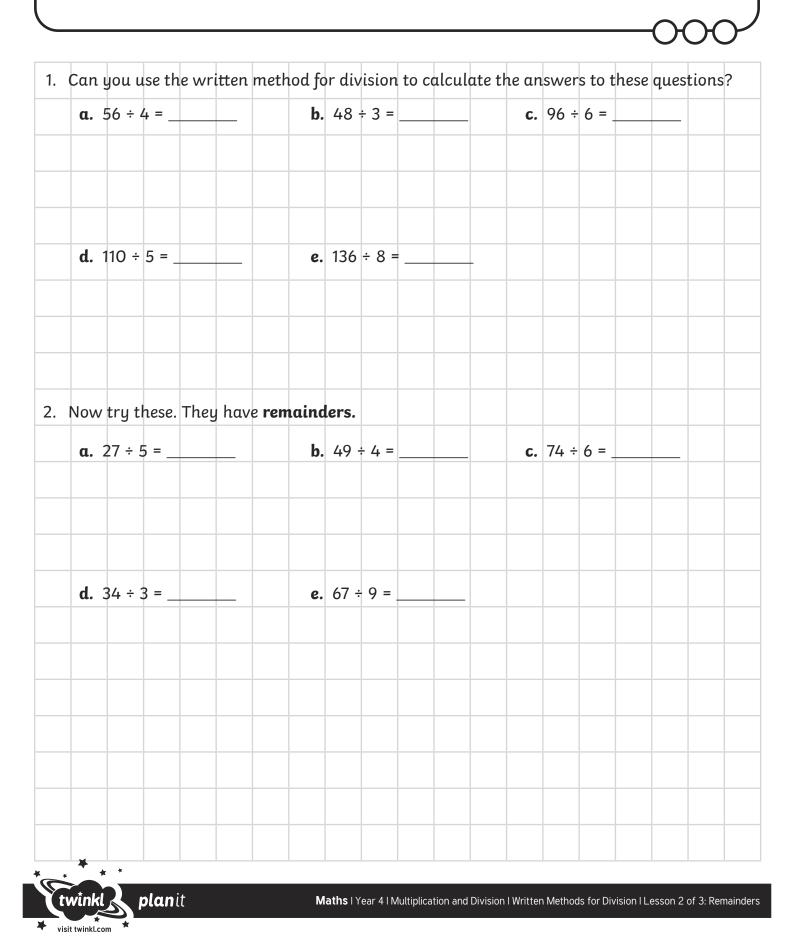
We can make 3 groups of 4 tens so we write the 4 above the **second** number on the bus stop.



Then, continue with the rest of the calculation. 3 ones can be shared into 3 groups of 1, so we write a 1 on the bus stop.



I can use the short written method for division where there are remainders (two-digit numbers).

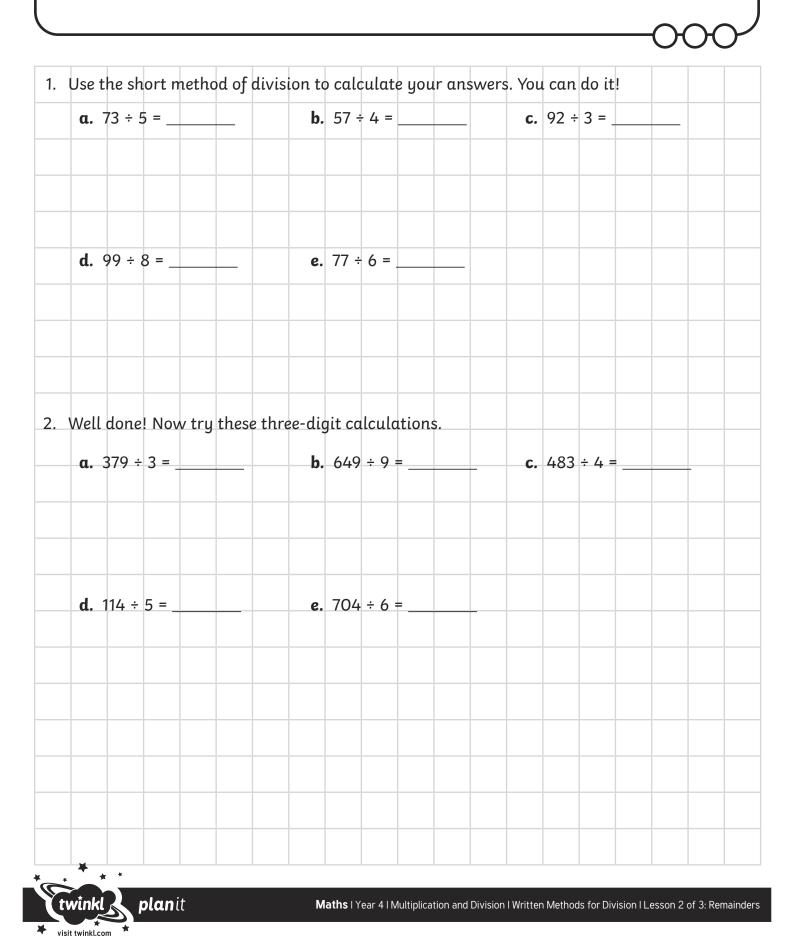


Answers

- 1. Can you use the written method for division to calculate the answers to these questions?
 - a) 56 ÷ 4 = <u>14</u> b) 48 ÷ 3 = <u>16</u>
 - c) 96 ÷ 6 = <u>16</u>
 - d) 110 ÷ 5 = <u>22</u>
 - e) 136 ÷ 8 = <u>17</u>
- 2. Now try these. They have remainders. (use the correct symbol to represent 'r' for remainder)
 - a) 27 ÷ 5 = <u>5r2</u>
 - b) 49 ÷ 4 = <u>12r1</u>
 - c) 74 ÷ 6 = <u>12r2</u>
 - d) 34 ÷ 3 = <u>11r1</u>
 - e) 67 ÷ 9 = <u>7r4</u>



I can use the short written method for division where there are remainders (two-digit numbers).



3. How can you identify multiples of 5? Use what you know about multiples of 5 to predict whether these division calculations will have a remainder. Calculate the answers to see if you were correct.

α.	2465 ÷ 5 =
	I think there will be a remainder.
	I think there won't be a remainder.
b.	3942 ÷ 5 =
	I think there will be a remainder.
	I think there won't be a remainder.
α.	7260 ÷ 5 =
	I think there will be a remainder.
	I think there won't be a remainder.
Š	inkl planit Maths Year 4 Multiplication and Division Written Methods for Division Lesson 2 of 3: Remaind

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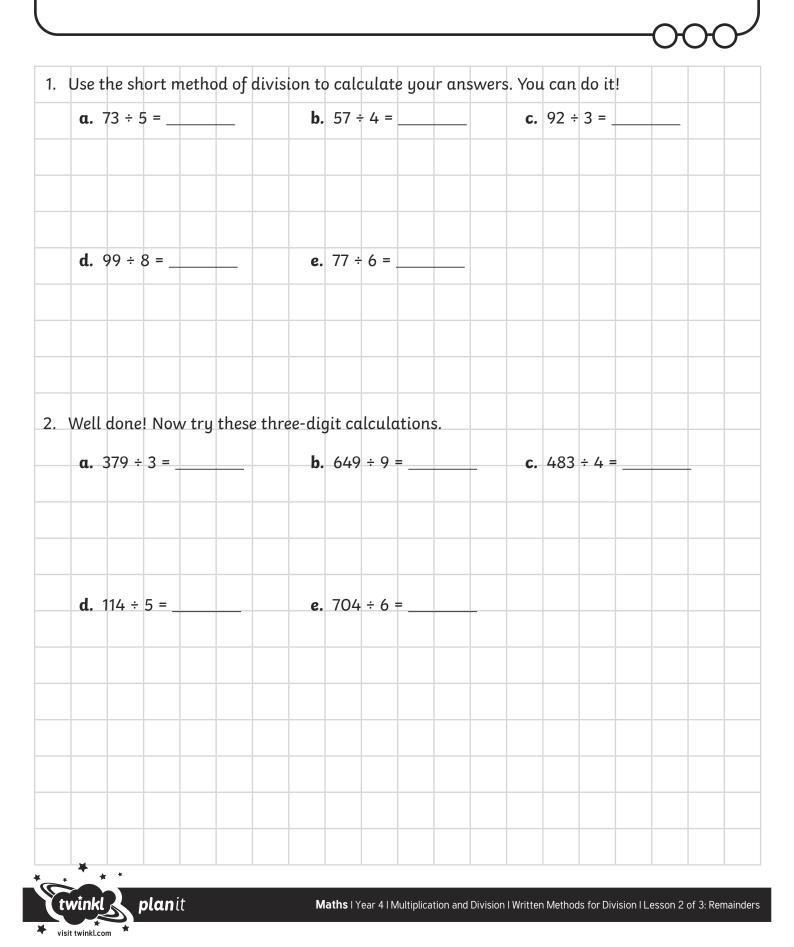


Answers

- 1. Use the short method of division to calculate your answers. You can do it!
 - a) 73 ÷ 5 = <u>14r3</u> b) 57 ÷ 4 = <u>14r1</u>
 - c) 92 ÷ 3 = <u>30r2</u>
 - d) 99 ÷ 8 = <u>12r3</u>
 - e) 77 ÷ 6 = <u>12r5</u>
- 2. Well done! Now try these three-digit calculations.
 - a) 379 ÷ 3 = <u>126r1</u>
 - b) 649 ÷ 9 = <u>72r1</u>
 - c) 483 ÷ 4 = <u>120r3</u>
 - d) 114÷ 5 = <u>22r4</u>
 - e) 704 ÷ 6 = <u>117r2</u>
- 3. How can you identify multiples of 5? They end in O or 5. Use what you know about multiples of 5 to predict whether these division calculations will have a remainder. Calculate the answers to see if you were correct.
 - a) 2465 ÷ 5 **= 493 no remainder**
 - b) 3942 ÷ 5 = **788r2**
 - c) 7260 ÷ 5 = **1452 no remainder**



I can use the short written method for division where there are remainders (two-digit numbers).



3. Can you do these? When you divide by 12, you may have to exchange two-digit numbers.

α.	220 ÷	12 =		b.	267	÷ 12	=		C.	422	÷ 12		_	
d.	328 ÷	12 =		e.	462	÷ 12	=							
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 - c) 483 ÷ 4 = <u>120r3</u>
 - d) 114÷ 5 = <u>22r4</u>
 - e) 704 ÷ 6 = <u>117r2</u>
- 3. Can you do these? When you divide by 12, you may have to exchange two-digit numbers.
 - a) 220 ÷ 12 = <u>18r4</u>
 - b) 267 ÷ 12 = **<u>22r3</u>**
 - c) 422 ÷ 12 = <u>35r2</u>
 - d) 328 ÷ 12 = **<u>27r4</u>**
 - e) 462 ÷ 12 = <u>38r6</u>

