

**Divide a 2-Digit Number
by a 1-Digit Number - with Remainders**



- 1) Use the place value counters to complete the sentences for the calculation $54 \div 4$.
1 ten has been exchanged for 10 ones.

Tens	Ones
10	1 1 1
10	1 1 1
10	1 1 1
10	1 1 1

1
1

There are ____ groups of ____.
There are ____ ones remaining.
____ \div ____ = ____ r ____

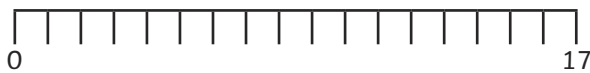
- 2) Draw place value counters on a place value chart to work out the division calculation.

$51 \div 4 = \text{____} r \text{____}$

Tens	Ones

- 3) Use repeated subtraction and the number line to solve each calculation.

a) $17 \div 3 = \text{____} r \text{____}$



b) $17 \div 4 = \text{____} r \text{____}$



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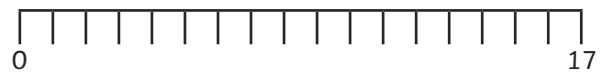
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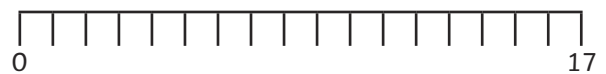
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**Divide a 2-Digit Number
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- 1)
a) Explain the mistake Felix has made.

Tens	Ones
10	1 1
10	1 1
10	1 1

10
1



$$47 \div 3 = 12r11$$

- b) What is the correct answer?

- 2) Do you agree with Jia's statement?
Explain why.



When 48 is divided by an even 1-digit number, there will always be a remainder of 2.

- 3) Which division calculation do you think is the odd one out?
Explain your reasoning.

A $39 \div 4$

B $29 \div 3$

C $48 \div 5$



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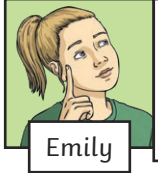


Divide a 2-Digit Number by a 1-Digit Number - with Remainders



- 1) Emily is sharing 37 pencils equally between some pencil pots. Each pencil pot can hold a maximum of 5 pencils.

How many pencil pots can she use and still have some spare pencils remaining? Find all possibilities.



I know that I can not have 37 pots with 1 pencil in each because there will be no spare pencils remaining.

- 2) Use the clues to identify how many marbles there are.

There are more than 20 marbles and less than 30 marbles.

When divided equally into 3 groups, there is 1 marble remaining.

When divided equally into 4 groups, there is no remainder.

When divided equally into 5 groups, there is a remainder of 3.

- 3) Is Hari's statement correct? Prove it.



I think that when a 2-digit even number is divided by 5, there will always be a remainder.

- 4) Mr Smith, the PE teacher, is organising the footballs and rugby balls into groups ready for a sports afternoon.

Each group contains more than 1 ball and there are 42 balls altogether.

There are 8 groups of footballs with 1 football remaining.

There are 4 groups of rugby balls with 1 rugby ball remaining.

How many footballs and rugby balls could there be in each group?

Find all possibilities.

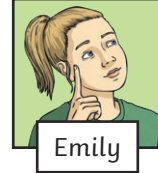


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