Homeroom:	R
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Math Journal





I can explain remainders by using place value understanding and models.

Reasoning about remainders

. What does a remainder mean? How does it affect how the problem is ultimately solved? In real life, understanding the significance of the remainder and its effect on your problem is critical.

Model division with remainders in the tens and ones places using place value discs.

41 ÷ 3 = m Place Value Discs

Standard Algorithm

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If 41 people are traveling by motorbike Mt. Mangengenge. Each motorbike can carry 3 people. How many motorbikes will they need to transport everyone to the hike?

Lea brought 41 grapes to share with two of her friends at lunch. If each of the three people gets an equal amount of grapes, how many grapes does each person get?

Jogith saved some money, which he wanted to donate equally to 3 different charities. How much money would he donate to each charity?

Reflect:

How did each scenario affect the remainder? Why?

groups

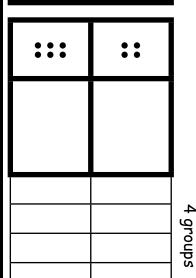


Represent the problem using place value discs and connect it to the standard algorithm.

$$64 \div 4 = m$$

Place Value Discs Standard Algorithm

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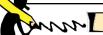
Fraction

May has \$64 that she would like to share equally among 4 friends. How much would each friend get?

Reflect:

How does thinking about monetary division problems help you understand unbundling? Why?





Mots Matématiques

Describing Division Word Bank:

cross out distribute

divide draw

equal fair

last multiply

next ones

share subtraction

tens then

unbundle

Use the word bank to **describe** how to solve:

Represent the problem using <u>place value disc</u> <u>algorithm</u> . Check your answer using multiplic		nect it to	the <u>long division standard</u>
94 ÷ 3 = m Standard Fraction Algorithm 94 3 94 3	Place Value Discs Check		
	Т	0	
Laetitia says that 94 ÷ 3 is 30 with a remainde (3 × 30) + 4 = 94. What mistake has Laetitia mher work.			
The place value disc model is showing 72 ÷ 3. Complete the model. T O MMM MM M	1	vhat happer g in the ter	ns to the 1 ten that is

Represent the problem using <u>place value discs</u> and connect it to the <u>long division standard algorithm</u>. Check your answer using multiplication.

Two friends evenly share 56 dollars.

They have 5 ten-dollar bills and 6 one-dollar bills. Draw a picture to show how the bills will be shared. Will they have to make change at any stage?

Standard	Fraction	Place Va	lue Discs	Check
Algorithm	 =	Т	0	
1				
How is the remair fraction?	ider represented in the			

Imagine you are filming an instructional video for new fourth graders explaining a problem that divides a two-digit number by one-digit. Create a script to explain how you can keep dividing after getting a remainder of 1 ten in the first step.





Represent the problem using <u>place value discs</u> and connect it to the <u>long division standard</u> <u>algorithm</u>. Check your answer using multiplication.

When you divide 86 by 4, there is a remainder of 2. Model this problem with place value discs. In the place value disc model, how can you see that there is a remainder?

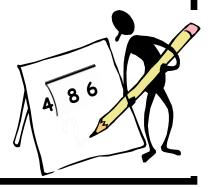
Standard Fraction Place Value Discs Check
Algorithm

T 0

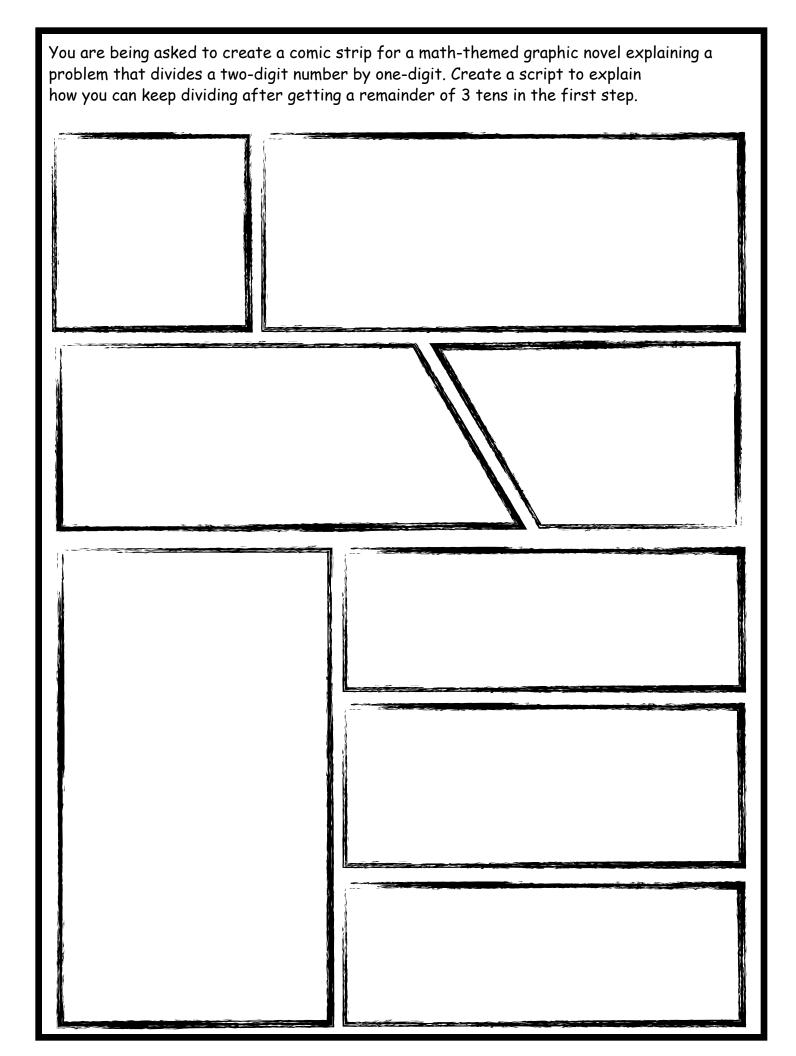
Rudy says that $86 \div 4$ is 20 with a remainder of 6. He reasons this is correct because $(4 \times 20) + 6 = 86$. What mistake has Rudy made? Explain how he can correct his work.

Reflect:

How does identifying and reflecting on our own mistakes or the mistakes of others help promote deeper thinking and understanding about a concept?



Represent the problem using place value discs and connect it to the long division standard algorithm. Check your answer using multiplication. Two friends evenly share 76 blueberries. To count the blueberries, they put them into small bowls of 10 blueberries. Draw a picture to show how the blueberries can be shared equally. Will they have to split apart any of the bowls of 10 blueberries when they share them? Standard Fraction Place Value Discs Check Algorithm Explain how the friends can share the blueberries fairly? The place value disc model is showing Explain what happens to the 2 tens that are 67 ÷ 4. Complete the model. remaining in the tens column. ø ø • ø ø •



Homeroom: R	Name:	
CKET	Date:	
EXIT TICKET Imagen's photo album be		
in Soaring!!		_
Intogen's photo dibunt no	s a total of 97 pictures. Ed	
	How many pages can Imoger	
any pictures lett? It so	, how many? Use place value	e discs to solve.
Τ Ο	Check:	
Mekhi's photo album has a total of 45 pict	ures. Each page of the albu	m holds 4 pictures.
He said he can only fill 10 pages completel		ny or why not.
	Check:	
ТО		
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	Explain:	
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