

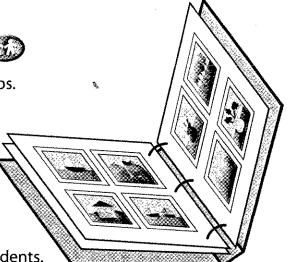
Dividing a 3-Digit Number by a 1-Digit Number





Each sheet of this photo album holds 8 photos. Evan has 325 photos.

How many sheets does he need? How many different ways can you find out? Show your work for each strategy you use.



Show and Share

Share your strategies with another pair of students.

Three children share \$1.25 equally. How much does each child get?

Change \$1.25 to 125¢.

To find out how much each child gets, divide: $125 \div 3$ Here are two strategies students used to find the quotient.

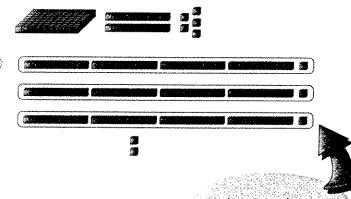
Emma used Base Ten Blocks.

She traded the hundred flats for 10 rods.

Emma then arranged the 12 rods and 5 unit cubes into 3 equal groups.

There are 2 cubes left over

So, $125 \div 3 = 41 \text{ R2}$



Each group has 41.

> Amil uses repeated subtraction to divide.

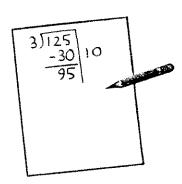
He subtracts multiples of the divisor.

Multiples of 3 are: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, ...

Write $125 \div 3$ as 3)125.

Choose any multiple of 3 less than 125.

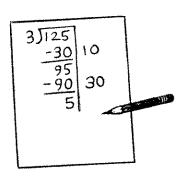
Start with 30. Subtract 30.





30 is a multiple of 3.
When I subtract 30, I am subtracting 3 ten times.
So, I write 10 at the side.

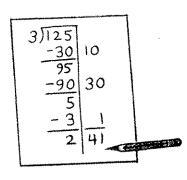
Then subtract 90.





90 is a multiple of 3. When I subtract 90, I am subtracting 3 thirty times. So, I write 30 at the side.

Then subtract 3.





When I subtract 3, I write 1 at the side, because $3 \times 1 = 3$.
I add the numbers at the side. 3)125 is 41 with 2 left over.

 $125 \div 3 = 41 \text{ R2}$

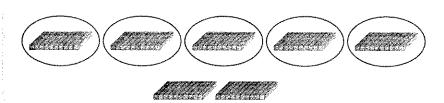
Each child gets 41¢. There are 2¢ left over.

We ignore the remainder because each child must have the same amount.

➤ Use Base Ten Blocks and place value to divide: 728 ÷ 5



Divide 7 hundreds into 5 equal groups.



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	- 5				1 1
	2	1 1 1 2			1 1 1 1

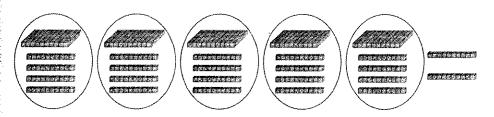
There are 1 hundred in each group, with 2 hundreds left over.

Trade the 2 hundred flats for 20 ten rods.

There are now 22 ten rods.

Divide the 22 ten rods among the 5 equal groups.

There are now 1 hundred 4 tens in each group, with 2 tens left over.



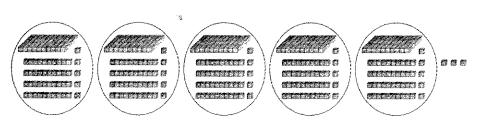
h t o 5)7|2|8 - 5 2 2 2 0

Trade the 2 ten rods for 20 unit cubes.

There are now 28 unit cubes.

1939999999 **600**9999999 80099999

Divide the 28 cubes among the 5 equal groups. There are now 1 hundred 4 tens 5 ones in each group, with 3 ones left over.



There are 145 in each group, with 3 left over.

So, $728 \div 5 = 145 \text{ R}3$