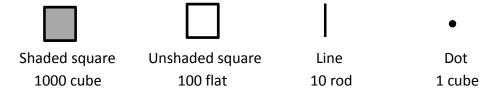
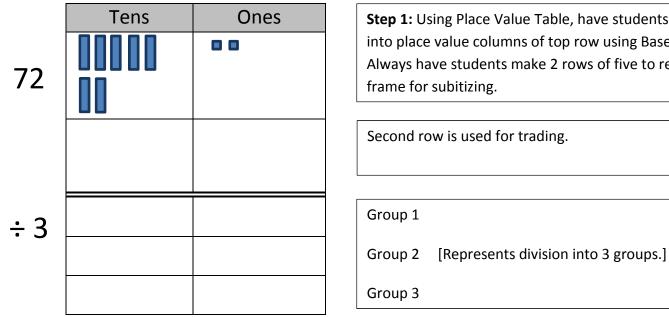
Base-ten Division Strategies: <u>Divvy Out Method</u> (3.OA.2, 4.NBT.6, 5.NBT.6)

With **Divvy Out**, you pass out your dividend into equal groups of the divisor.

Use Base 10 Blocks. When students are ready to move to semi-concrete, have them use the key:



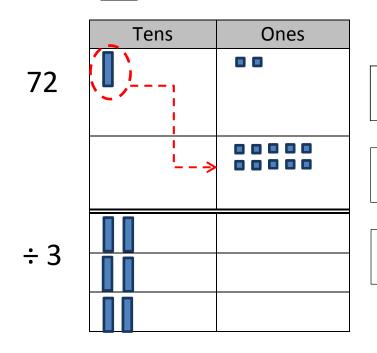
Example 1: 72 ÷ 3 = _____



Step 1: Using Place Value Table, have students put dividend into place value columns of top row using Base 10 blocks. Always have students make 2 rows of five to represent a ten frame for subitizing.

Second row is used for trading.

72 ÷ 3 = ____

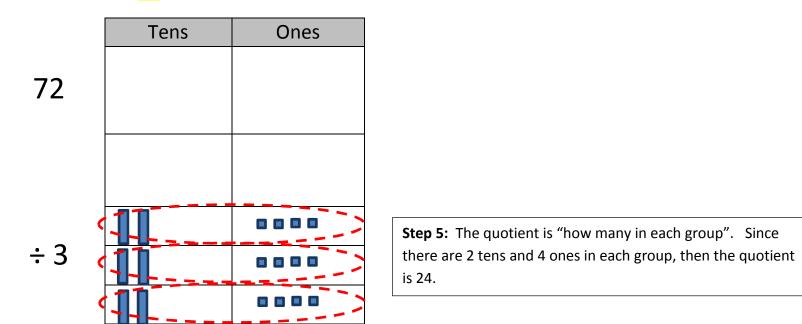


Step 2: Students divvy the blocks into the three groups to make them equal. Start with Tens.

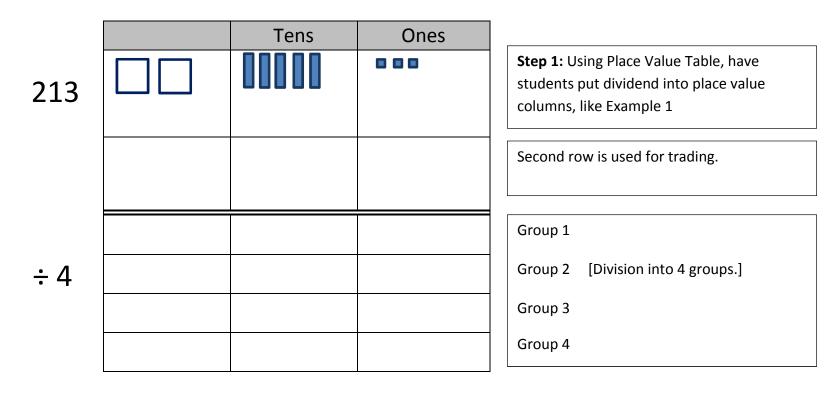
Step 3: 6 tens go into the 3 groups evenly, with 1 ten left. Make a trade for 10 ones.

Step 4: Divvy out the ones.

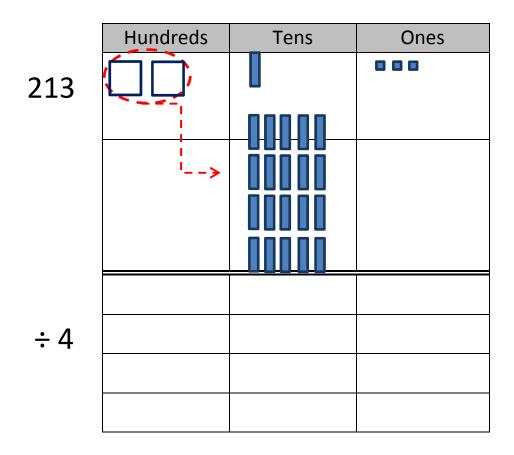
72 ÷ 3 = <u>24</u>



Example 2: 213 ÷ 4 = _____

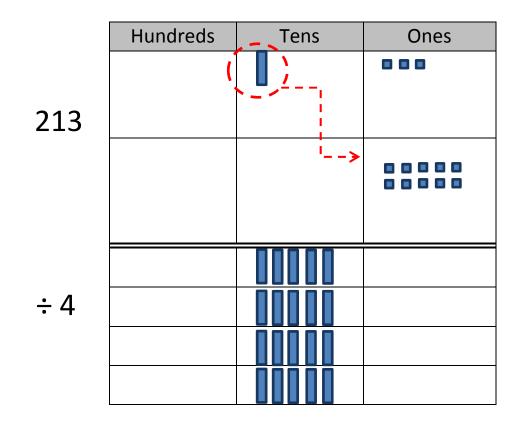


213 ÷ 4 = ____



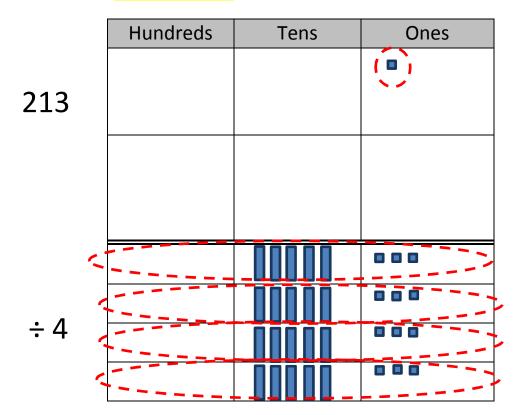
Step 2: Students divvy the blocks into the four groups to make them equal. Start with Hundreds. Students cannot divvy hundreds because there are not enough for each group, so they trade for tens.

213 ÷ 4 = ____



Step 3: Divvy out the tens, then trade any left overs for ones.

213 ÷ 4 = <u>53, 1 left over</u>



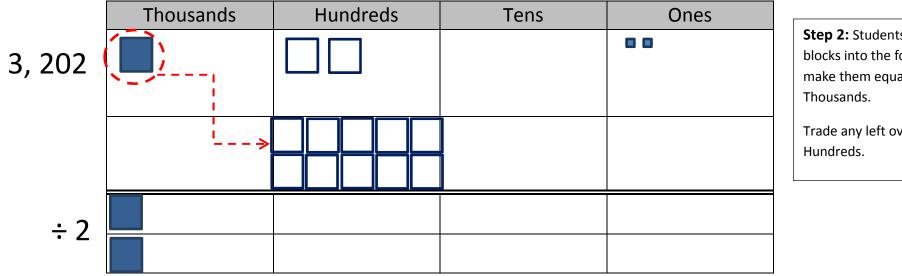
Step 4: Divvy out the ones. There will be 1 left over.

Step 5: The quotient is "how many in each group". Since there are 0 hundreds, 5 tens, and 3 ones in each group and 1 left over, then the quotient is 53, left over 1.

Example 3: 3,202 ÷ 2 = _____

	Thousands	Hundreds	Tens	Ones	
3, 202					Step 1: Using Place Value Table, have students put dividend into place value columns, like Example 1
					Second row is used for trading.
÷ 2					Group 1
÷ 2					Group 2 [Division into 2 groups.]

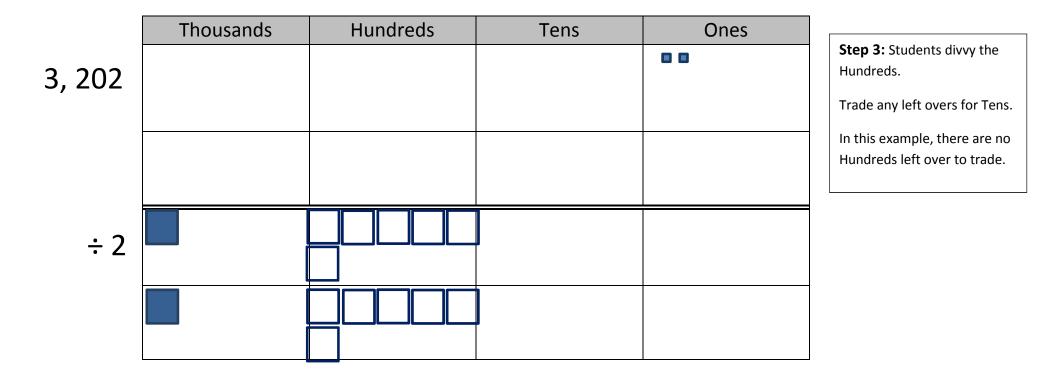
3,202 ÷ 2 = _____



Step 2: Students divvy the blocks into the four groups to make them equal. Start with

Trade any left overs for

3,202 ÷ 2 = _____



	Thousands	Hundreds	Tens	Ones	
3, 202					Step 4: Students divvy the Tens.
					Trade any left overs for Ones.
					In this example, there are no Tens to divvy out.
÷2					

3,202 ÷ 2 = <u>1,601</u>

