## Divide Multi-Digit Numbers

## Dear Family,

 This week your child is learning to divide multi-digit whole numbers by a two-digit number.One way to solve a division problem such as $770 \div 14$ is to set it up vertically.
First divide the hundreds in 770 by 14.
There are 50 groups of 14 in 700.
Then divide the tens in 770 by 14 .
There are 5 groups of 14 in 70.


So, $770 \div 14=55$.
Another way your child is learning to divide is with an area model, similar to the model used in multiplication.

The area model below shows $770 \div 14$.
Because multiplication and division are inverse operations, or operations that undo each other, use the relationship between them to divide.


Both methods result in the same quotient, 55 . Notice that 50 and 5 appear as partial quotients in each way of dividing.

Invite your child to share what he or she knows about dividing whole numbers by doing the following activity together.

## ACTIVIITY DIVISION IN THE WORLD

## Do this activity with your child to divide multi-digit numbers.

Work with your child to solve real-life problems involving division.

- Choose a favorite book with your child and look at the total number of pages in it. The book should have more than 100 pages. Pick a two-digit number of pages to read each day. Ask: How many days would it take to read the entire book?
- Use division to find the answer. For example, suppose the book has 286 pages and the number of pages to be read each day is 15 . Divide 286 by 15 to find the number of days it will take to read the book.
- Work together to write and solve the division problem about the book. Encourage your child to use rounding and multiplication to help estimate the quotient first.
- Decide what to do if there is a remainder. Will you read the remaining number of pages on the next day, or will you read the remaining number of pages on the last day of reading?
- Repeat this activity at least 3 more times, either using the same situation or another.


