

## School-Home Letter



Dear Family,

During the next few weeks, our math class will be learning how to divide 2-digit, 3-digit, and 4-digit dividends by 1-digit divisors. The class will learn several ways to divide, including the standard division algorithm. We will also explore multi-step, real-world division problems.

You can expect to see homework that provides practice with a variety of methods that can be used to divide.

Here is a sample of how your child will be taught to divide.

## Vocabulary

**dividend** The number that is to be divided in a division problem

*Example:*  $30 \div 3$ ; the dividend is 30

**divisor** The number that divides the dividend

*Example:*  $30 \div 3$ ; the divisor is 3

**partial quotient** A method of dividing in which multiples of the divisor are subtracted from the dividend and then the quotients are added together

**quotient** The number, not including the remainder, that results from dividing

*Example:*  $30 \div 3 = 10$ ; the quotient is 10

*The Multilingual Glossary is available online.*

**Model Divide Three-Digit Numbers**

This is one method we will use to divide.

**Solve.**  $268 \div 5$

**Step 1**

Estimate to place the first digit in the quotient.

$$250 \div 5 = 50$$

So, place the first digit in the tens place.

$$\begin{array}{r} 5 \\ 5 \overline{)268} \end{array}$$

**Step 2**

Divide the tens.

$$\begin{array}{r} 5 \\ 5 \overline{)268} \\ -25 \phantom{0} \\ \hline 18 \phantom{0} \end{array}$$

**Step 3**

Divide the ones.

$$\begin{array}{r} 53 \text{ r}3 \\ 5 \overline{)268} \\ -25 \phantom{0} \\ \hline 18 \phantom{0} \\ -15 \phantom{0} \\ \hline 3 \phantom{0} \end{array}$$

**TIPS****Use Multiplication to Check**

You can use multiplication to check your answer when you divide. For example, to check  $330 \div 3 = 110$ , multiply  $3 \times 110$ .

$3 \times 110 = 330$ , so 110 is the correct quotient.

**Activity**

Practice division estimation with your child. Name a number between 1,000 and 9,999. Ask your child to estimate the quotient when the number is divided by 1,000. Then ask your child to estimate the quotient when the number is divided by 100. Discuss the pattern you discover. You can extend the activity to include estimating division by 10.