CHAPTER 3

School-Home Letter

Vocabulary

compatible numbers Numbers that are easy to compute mentally

estimate To find an answer that is close to the exact amount

partial products A method of multiplying in which the ones, tens, hundreds, and so on are multiplied separately and then the products are added together

The Multilingual Glossary is available online.

Dear Family,

During the next few weeks, our math class will be learning to multiply by 2-digit whole numbers. We will also learn how to describe the reasonableness of an estimate.

You can expect to see homework that provides practice with estimation and multiplication of numbers with more than 1 digit.

Here is a sample of how your child will be taught to multiply by a 2-digit number.

TIPS

Commutative Property of Multiplication

Remember that the product will be the same no matter how you order the factors when you multiply.

$24 \times 25 = 25 \times 24$

So you can write the factors in any order when you multiply and the product will always be the same.

Model Multiply 2-Digit Numbers

This is one way that we will be multiplying by 2-digit numbers.

Step 1

Multiply by the ones digit.

$$\begin{array}{r} {\scriptstyle 2} \\ 24 \\ \times\ 25 \\ \hline 120 \end{array} \leftarrow \text{partial product}$$

Step 2

Multiply by the tens digit. Start by placing a zero in the ones place.

$$\begin{array}{r} {\scriptstyle 2} \\ 24 \\ \times\ 25 \\ \hline 120 \\ +\ 480 \\ \hline \end{array} \leftarrow \text{partial product}$$

Step 3

Add the partial products.

$$\begin{array}{r} {\scriptstyle 2} \\ 24 \\ \times\ 25 \\ \hline 120 \\ +\ 480 \\ \hline 600 \end{array} \leftarrow \text{product}$$

Activity

Practice multiplying by 10 when you have paper and a pencil available. Name 1-digit numbers and ask your child to find 10 times each number. Then do the same with 2-digit numbers. Point out that there is a zero in the ones place of every answer.