

# School-Home Letter

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.

## 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

### 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.

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

#### STEP 2

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

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

#### STEP 3

Add the partial products.

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

### Tips

#### Estimating to Check Multiplication

When estimation is used to check that a multiplication answer is reasonable, usually each factor is rounded to a multiple of 10 that has only one nonzero digit. Then mental math can be used to recall the basic fact product, and patterns can be used to determine the correct number of zeros in the estimate.