

Dear Family,

During the next few weeks, our math class will be learning to multiply greater numbers.

You can expect to see work that provides practice with basic multiplication facts, and then with multiplying 1- and 2-digit numbers by 2-, 3-, and 4-digit numbers. We will be learning how to multiply greater numbers when regrouping is necessary.

As we learn to multiply with greater numbers, you may wish to use the following sample as a guide.

## Vocabulary

**multiplication** An operation on two numbers that gives a product.

**product** The answer to a multiplication problem.

**factor** A number that can be multiplied to obtain a given product.

**estimate** To find about how much or about how many.

**regroup** To use place value to exchange equal amounts when renaming a number.

## Multiply Greater Numbers

To find  $3 \times 275$ , follow these steps.

First, multiply the ones.

$$3 \times 5 \text{ ones} = 15 \text{ ones}$$

Regroup 15 ones as 1 ten and 5 ones.

$$\begin{array}{r} 275 \\ \times 3 \\ \hline 5 \end{array}$$

Next, multiply the tens.

$$3 \times 7 \text{ tens} = 21 \text{ tens}$$

Add the 1 regrouped ten.

$$21 + 1 = 22$$

Regroup 22 tens as 2 hundreds and 2 tens.

$$\begin{array}{r} 275 \\ \times 3 \\ \hline 25 \end{array}$$

Then, multiply the hundreds.

$$3 \times 2 \text{ hundreds} = 6 \text{ hundreds}$$

Add the 2 regrouped hundreds.

$$6 + 2 = 8$$

$$\begin{array}{r} 275 \\ \times 3 \\ \hline 825 \end{array}$$

Knowing how to multiply with greater numbers will allow students to solve more complex, real-world problems.

Sincerely,

Your Child's Teacher



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