

Dear Family,

This week your child is learning to multiply three-digit numbers by two-digit numbers.



One way to multiply 128×35 is to set up the problem vertically.

First multiply each digit in 128 by the 5 ones in 35: $5 \times 128 = 640$.

Then multiply each digit in 128 by the 3 tens in 35: $30 \times 128 = 3,840$.

Add the partial products to find the product: $640 + 3,840 = 4,480$.

$$\begin{array}{r}
 128 \\
 \times 35 \\
 \hline
 640 \\
 + 3,840 \\
 \hline
 4,480
 \end{array}$$

Labels: **partial products** (pointing to 640 and 3,840), **product** (pointing to 4,480)

Another way your child is learning to multiply is with an area model. An area model gives a visual representation of the multiplication.

The area model below shows 128×35 .

The length of the rectangle represents 128: $100 + 20 + 8$.

The width of the rectangle represents 35: $30 + 5$.

Multiply. Add the partial products to find the product.

	100	20	8
30	$30 \times 100 = 3,000$	$30 \times 20 = 600$	$30 \times 8 = 240$
5	$5 \times 100 = 500$	$5 \times 20 = 100$	$5 \times 8 = 40$

$$128 \times 35 = 3,000 + 600 + 240 + 500 + 100 + 40 = 4,480$$

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



Multiplication Activity

Materials: magazine or newspaper

Work with your child to find a real-life example of using multiplication that involves the number of words in a magazine or newspaper article.

Sometimes a reporter has to write a story with a certain number of words, for example, 500 words. Multiplication is a good way to find the number of words in a story.

- Have your child choose an article from a magazine or newspaper.
- Ask your child to count the number of words in one paragraph and record the number on a sheet of paper.
- Then count the number of paragraphs in the article.
- Suppose each paragraph had the same number of words. How many words are in the article? (Multiply the number of words in a paragraph by the number of paragraphs.)
- If each paragraph has a different number of words, is the answer to the previous question an exact answer or an estimate for the total number of words in the article? (It's an estimate because the number of words in each paragraph varies.)



My article had
189 words in a
paragraph, and
23 paragraphs. How
many words in the
article?

