



## Multiplying Whole Numbers

Elaborate – Answer Key

**Directions:** Complete Part 1 by multiplying the two numbers together. Complete Part 2 by solving the problems. Answer the debriefing questions that follow Part 2.

### Part 1: Multiplication 2 by 1

$\begin{array}{r} 53 \\ \times 2 \\ \hline 106 \end{array}$	$\begin{array}{r} 7 \\ 19 \\ \times 8 \\ \hline 152 \end{array}$	$\begin{array}{r} 2 \\ 34 \\ \times 5 \\ \hline 170 \end{array}$	$\begin{array}{r} 4 \\ 27 \\ \times 6 \\ \hline 162 \end{array}$
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### Part 2: Solving Problems with Multiplication

Each day at Emerson Elementary School, 11 day care vans each pick up 8 students. How many students at Emerson Elementary School ride day care vans home from school?

$$11 \times 8 = 88$$

**88 students**

Gabriel has \$4. Angela has three times as much money as Gabriel. Bernadette has twice as much money as Angela. How much money does Bernadette have?

$$\text{Angela: } 3 \times \$4 = \$12$$

$$\text{Bernadette: } \$12 \times 2 = \$24$$

**Bernadette has \$24.**



### Debriefing Questions

1. Which set of numbers forms a fact family: 6, 3, and 14, or 5, 4, and 20? How do you know?

***5, 4, and 20 form a fact family.***

$$5 \times 4 = 20$$

$$4 \times 5 = 20$$

$$20 \div 4 = 5$$

$$20 \div 5 = 4$$

***6 × 3 does not equal 14, so 6, 3, and 14 cannot be a fact family.***

2. If you are multiplying 14 and 9, why do you have to carry the 3 to the tens column? Use the words *ones*, *tens*, and *place value* in your answer.

***When you multiply 4 ones by 9, you get 36 ones, which is equal to 3 tens and 6 ones. The 3 tens must be carried over to the tens place value in order to add them to the product of 1 ten and 9 ones.***

