

Name: \_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_

# Multiplying Multi-Digit Whole Numbers

Exit Quiz

**Math 5**

**Part 1:** Find the product of 581 and 364 using the given strategy.

1. Area Model

2. Partial Product

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## 3. Standard Algorithm

**Part 2:** Solve the problem below.

Sam owns in a furniture shop. He was able to sell 1 539 wooden chairs sold at \$83, in one month. How much did he earn with the chairs he sold for that month?

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## Answers:

**Part 1:** Find the product of 581 and 364 using the given strategy.

### 1. Area Model

	500	80	1
300	150 000	24 000	300
60	30 000	4 800	60
4	2 000	320	4

$$182\,000 + 29\,120 + 364 = 211\,484$$

### 2. Partial Product

$$581 \times 364 = (500 + 80 + 1) \times (300 + 60 + 4)$$

$$500 \times 300 = 150\,000$$

$$150\,000$$

$$500 \times 60 = 30\,000$$

$$30\,000$$

$$500 \times 4 = 2\,000$$

$$2\,000$$

$$80 \times 300 = 24\,000$$

$$24\,000$$

$$80 \times 60 = 4\,800$$

$$4\,800$$

$$80 \times 4 = 320$$

$$320$$

$$1 \times 300 = 300$$

$$300$$

$$1 \times 60 = 60$$

$$60$$

$$1 \times 4 = 4$$

$$+ \quad 4$$

$$211\,484$$

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## 3. Standard Algorithm

$$\begin{array}{r} 581 \\ \times 364 \\ \hline 2324 \\ 3486 \\ + 1743 \\ \hline 211484 \end{array}$$

**Part 2:** Solve the problem below.

Sam owns in a furniture shop. He was able to sell 1 539 wooden chairs sold at \$83, in one month. How much did he earn with the chairs he sold for that month?

**Solution:**

$$\begin{array}{r} 1539 \\ \times 83 \\ \hline 4617 \\ + 12312 \\ \hline 127737 \end{array}$$

Sam earned \$127, 737.