تدريبات الدرس السادس من الوحدة الخامسة منهج ريفيل

Unit 5 – L 6

Lesson 5-6

Relate Partial Products to an Algorithm

Book Page: 155

$$\begin{array}{r} 132 \\ \times \quad 3 \\ \hline 300 \leftarrow 3 \times 100 \\ 90 \leftarrow 3 \times 30 \\ +\quad 6 \leftarrow 3 \times 2 \\ \hline 396 \end{array} \qquad \begin{array}{r} 132 \\ \times \quad 3 \\ \hline 396 \end{array}$$

Learn

The distance from Los Angeles to New York City is 7 times as far from Los Angeles to Phoenix.

How can you determine the distance from Los Angeles to New York City?

You can multiply using an **algorithm**.

Step 1 Multiply the ones.

$7 \times 3 = 21$

Regroup 21 as 2 tens and 1 one.

$$\begin{array}{r} {\scriptstyle 2} \\ 413 \\ \times \quad 7 \\ \hline {\scriptstyle 1} \end{array}$$

Show 2 tens.

Show 1 one.

Step 2 Multiply the tens.

$7 \times 10 = 70$

Add the 2 tens from Step 1.

$70 + 20 = 90$

$$\begin{array}{r} {\scriptstyle 2} \\ 413 \\ \times \quad 7 \\ \hline 91 \end{array}$$

Show 9 tens.

Step 3 Multiply the hundreds.

$7 \times 400 = 2{,}800$

The distance from Los Angeles to New York City is 2,891 miles.

$$\begin{array}{r} {\scriptstyle 2} \\ 413 \\ \times \quad 7 \\ \hline 2{,}891 \end{array}$$

Show 28 hundreds.

Math is... Generalizations

How are the partial products strategy and this algorithm related?

Work Together

Find the product using an algorithm.

$$\begin{array}{r} 3{,}021 \\ \times \quad 4 \end{array}$$

What is the product?

1. $\begin{array}{r} 327 \\ \times \quad 6 \\ \hline \end{array}$

2. $\begin{array}{r} 543 \\ \times \quad 8 \\ \hline \end{array}$

3. $\begin{array}{r} 1{,}931 \\ \times \quad 5 \\ \hline \end{array}$

4. $\begin{array}{r} 3{,}462 \\ \times \quad 4 \\ \hline \end{array}$

What is the product? Choose the correct answer.

5. $188 \times 7 = s$

   A. $s = 1{,}300$

   B. $s = 1{,}316$

   C. $s = 1{,}388$

   D. $s = 1{,}406$

6. $237 \times 9 = v$

   A. $v = 2{,}033$

   B. $v = 2{,}163$

   C. $v = 2{,}153$

   D. $v = 2{,}133$

7. $2{,}623 \times 2 = y$

   A. $y = 5{,}246$

   B. $y = 4{,}246$

   C. $y = 5{,}126$

   D. $y = 5{,}616$

8. $5{,}246 \times 3 = r$

   A. $r = 15{,}882$

   B. $r = 16{,}838$

   C. $r = 16{,}612$

   D. $r = 15{,}738$

9. **STEM Connection** Hiro knows that Lake Michigan is 922 feet deep. He knows that the Atlantic Ocean is 28 times as deep. How deep is the Atlantic Ocean?

10. Joey earns $355 a week mowing lawns. How much money does he earn in 6 weeks?

11. The pedometer shows the number of steps Maria walks each day. How many steps did she walk after 7 days?

12. On a road trip, Emily and her family listen to 3 podcasts. Each one is 45 minutes long. For how many seconds do they listen to podcasts?

Lesson **5-6**

Exit Ticket

Name _____

1. Which product is correct? Choose all that apply.

A.
$$\begin{array}{r} 254 \\ \times \quad 3 \\ \hline 652 \end{array}$$

B.
$$\begin{array}{r} 438 \\ \times \quad 7 \\ \hline 3{,}066 \end{array}$$

C.
$$\begin{array}{r} 315 \\ \times \quad 4 \\ \hline 12{,}420 \end{array}$$

D.
$$\begin{array}{r} 623 \\ \times \quad 5 \\ \hline 3{,}115 \end{array}$$

2. What is the product? Use an algorithm to solve.

$$\begin{array}{r} 2{,}471 \\ \times \quad 3 \\ \hline \end{array}$$

3. A theater has a capacity of 1,074 people. The previous 7 shows have all been sold out. How many people attended the 7 performances? Use an algorithm to solve.

A. 1,081 people

B. 7,498 people

C. 7,501 people

D. 7,518 people

4. The average attendance at a town's high school basketball games is 2,914 people per game. How many people attended the team's 8 home games so far this season? Use an algorithm to solve.

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$$\begin{array}{r} 623 \\ \times \quad 5 \\ \hline 3{,}115 \end{array}$$

2. What is the product of the equation? Use an algorithm to solve.

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23,312 people