Exploring Partial-Products Multiplication

Lesson 4-6

DATE TIME

Draw a partitioned rectangle to represent the problem. Then use partial-products multiplication to record your work in a simpler way.

SRB 103-104, 106

1

Partitioned Rectangle

	50	4
7	350	28

54

Partial-Products Multiplication

$$\begin{array}{r} 54 \\ \times \quad 7 \\ \hline 350 \\ +\ 28 \\ \hline 378 \end{array}$$

2

Partitioned Rectangle

	500	40	2
7	3500	280	14

542

Partial-Products Multiplication

$$\begin{array}{r} 542 \\ \times \quad 7 \\ \hline 3500 \\ 280 \\ +\ 14 \\ \hline 3{,}794 \end{array}$$

4.NBT.2, 4.NBT.4, 4.NBT.5, 4.MD.3, SMP2

Exploring Partial-Products Multiplication (continued)

Lesson 4-6

DATE TIME

Use partial-products multiplication to solve the problems.

3

$$\begin{array}{r} 47 \\ \times\ \ 6 \\ \hline 240 \\ +\ \ 42 \\ \hline 282 \end{array}$$

4

$$\begin{array}{r} 635 \\ \times\ \ \ 9 \\ \hline 5400 \\ 270 \\ +\ \ \ 45 \\ \hline 5{,}715 \end{array}$$

5

$$\begin{array}{r} 1{,}284 \\ \times\ \ \ \ 8 \\ \hline 8000 \\ 1600 \\ 640 \\ +\ \ \ 32 \\ \hline 10{,}272 \end{array}$$

6

$$\begin{array}{r} 4{,}006 \\ \times\ \ \ \ 5 \\ \hline 20\,000 \\ +\ \ \ \ 30 \\ \hline 20{,}030 \end{array}$$

4.NBT.2, 4.NBT.4, 4.NBT.5, 4.MD.3, SMP2