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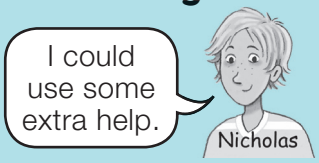
Practice Multiplication Strategies

Self-Check

Use the Workshop Menu: Practice Multiplication Strategies to choose practice for estimating products and using a variety of strategies for multidigit multiplication.

Workshop Menu: Practice Mulitplication Strategies		
Can I Do This?	**▲ Working On It!** 	**■ Got It!** 
Estimate products. **Multiply multidigit numbers using mental math, expanded form, rectangle model, all-partials, and compact method.**	**Questions 1–5, 10**	**Questions 4–10**

Use the *Multidigit Multiplication Strategies Menu* in the *Student Guide* Reference section. Solve each of the following problems using the strategy listed in the first column. Then solve each problem using a different strategy in the second column. In the third column, show an estimation strategy to check if your answer is reasonable. Circle the strategy you think worked best for the problem.

Try This Strategy	Another Strategy	Estimation Strategy
Example: All-Partials 212 × 5 10 50 1000 1060	Rectangle Model 200 10 2 5 | 1000 | 50 | 10 1000 50 + 10 1060	212 × 5 → 200 × 5 1000

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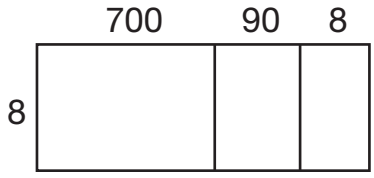
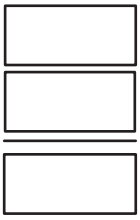
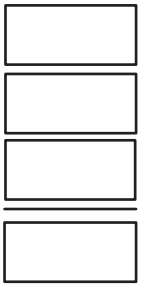
Try This Strategy	Another Strategy	Estimation Strategy
▲□□ **1.** Rectangle Model 8×798 		
▲□□ **2.** All-Partials 509 $\times$ 7 3500 		
▲□□ **3.** Expanded Form $22 = 20 + 2$ $\times 14 = 10 + 4$ 200 		

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Try This Strategy	Another Strategy	Estimation Strategy
▲□■ **4.** Mental Math 71 × 60		
▲□■ **5.** Compact Method 35 × 54		
□□■ **6.** Expanded Form 17 × 98		

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Try This Strategy	Another Strategy	Estimation Strategy
7. Compact Method 202 × 51		
8. Rectangle Model 577 × 43		
9. All-Partials 863 × 45		

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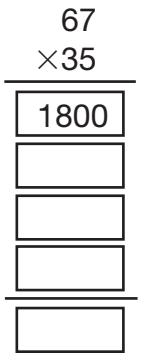
Check-In: Question 10

10. The problem is 67 × 35.

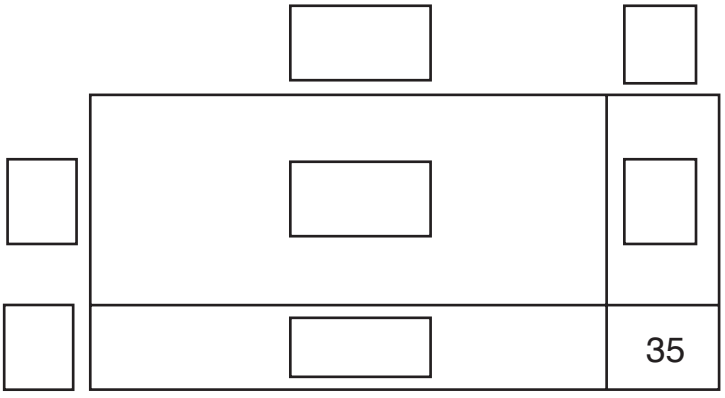
A. Estimate the product.

B. Tanya started to solve the problem using all-partials. Jerome started to solve the problem using a rectangle model. Finish their work. Show each of Tanya's partial products in Jerome's rectangle.

Tanya's Work:



Jerome's Work:



C. Show how to use expanded form or the compact method to solve 67 × 35.

D. Use your estimate in Question A to explain if your answer in Question C is reasonable.

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Practice Multiplication Strategies Check-In: Q# 10 Feedback Box	Expectation	Check In	Comments
Show connections between models and strategies for multiplication. [Q# 10B]	E2		
Multiply multidigit numbers using paper-and-pencil methods. [Q# 10B–C]	E4		
Estimate products. [Q# 10A]	E5		

	Yes . . .	Yes, but . . .	No, but . . .	No . . .
MPE3. Check for reasonableness. I look back at my solution to see if my answer makes sense. If it does not, I try again. [Q# 10D]				
MPE5. Show my work. I show or tell how I arrived at my answer so someone else can understand my thinking. [Q# 10C]				