Name _____

Practice Video Tools Games

Additional Practice 3-5

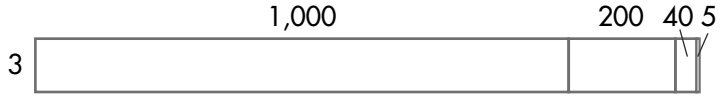
More Use Area Models and Partial Products to Multiply

Another Look!

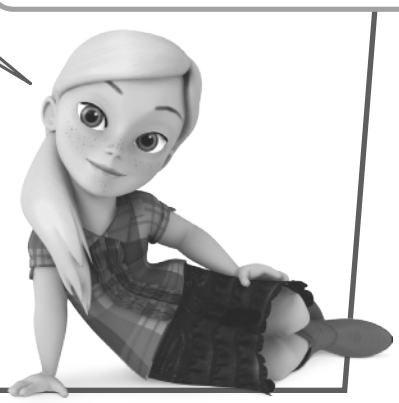
Three groups of 1,245 students attended the concert. How many students attended the concert?

You can use area models and partial products to find the products of greater numbers.

Find $3 \times 1{,}245$.



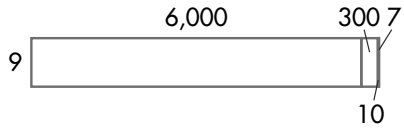
$$\begin{array}{r} 1{,}245 \\ \times \quad 3 \\ \hline 15 \\ 120 \\ 600 \\ +\,3{,}000 \\ \hline 3{,}735 \end{array}$$



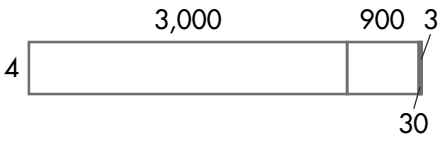
3,735 students attended the concert.

For **1–6**, multiply. Use the area model and partial products.

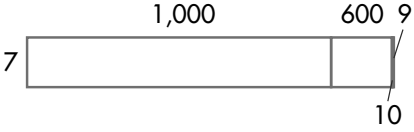
1. 6317×9



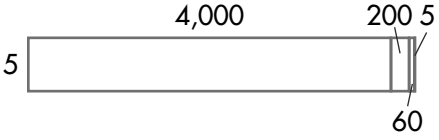
2. $3{,}933 \times 4$



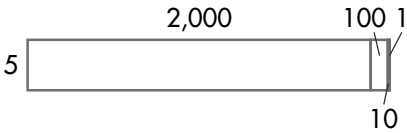
3. $1{,}619 \times 7$



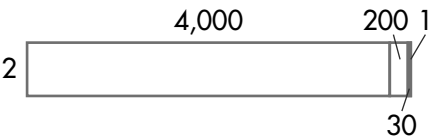
4. $4{,}265 \times 5$



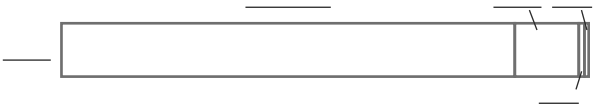
5. $2{,}111 \times 5$



6. $4{,}231 \times 2$



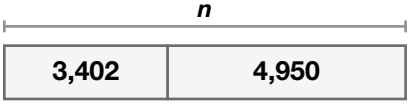
7. Use Appropriate Tools Complete the area model to find the product of 7 and 3,412.



8. Fred's Auto Sales purchases 3 new vehicles for $11,219, $31,611, and $18,204. What was the total cost for all the vehicles?

9. Kinsey earns $54,625 a year. She purchases a snowmobile for $12,005. How much of Kinsey's yearly earnings does she have left?

10. Number Sense Dalton added 3,402 + 4,950 to get 8,352. Estimate the sum by rounding the addends to the nearest hundred. Is Dalton's sum reasonable? Explain.



11. Higher Order Thinking Josh used an algorithm to find the product for 9 × 239. His work is shown below. Is Josh's work correct? Explain.

$$\begin{array}{r} 239 \\ \times \quad 9 \\ \hline 1{,}800 \\ 270 \\ +\ 81 \\ \hline 2{,}151 \end{array}$$

Assessment Practice

12. Select all the numbers that are partial products of 8 × 1,126.

- ☐ 48
- ☐ 80
- ☐ 160
- ☐ 800
- ☐ 8,000

13. Which products have 240 as a partial product?

- ☐ 3 × 3,388
- ☐ 8 × 2,612
- ☐ 4 × 5,376
- ☐ 6 × 4,345
- ☐ 3 × 6,828

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