Do You Understand?

1. **Use Structure** A theater can seat 540 people at one time. How many tickets are sold if the theater sells out every seat for one 30-day month?

2. **Number Sense** Is $500 \times 30$ a good estimate for the number of tickets sold at the theater in one month?

Do You Know How?

In 3–6, find each product. Estimate to check that your answer is reasonable.

3. $236 \times 46$
4. $61 \times 25$
5. $951 \times 62$
6. $185 \times 5$

Independent Practice

**Leveled Practice** In 7–22, find each product. Estimate to check that your answer is reasonable.

7. $51 \times 10$
8. $892 \times 18$
9. $946 \times 33$
10. $735 \times 41$
11. $25 \times 100$
12. $81 \times 11$
13. $106 \times 7$
14. $90 \times 59$
15. $18 \times 360$
16. $75 \times 222$
17. $481 \times 35$
18. $659 \times 17$
19. $340 \times 89$
20. $439 \times 22$
21. $273 \times 9$
22. $64 \times 475$

*For another example, see Set C on page 157.*
23. **Math and Science**  How many times does a rabbit’s heart beat in 1 hour?

24. **Make Sense and Persevere**  In 1 hour, how many more times does a rabbit’s heart beat than a dog’s heart? Write an equation to show your work.

<table>
<thead>
<tr>
<th>Animal</th>
<th>Heart Rate (beats per minute)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dog</td>
<td>100</td>
</tr>
<tr>
<td>Gerbil</td>
<td>360</td>
</tr>
<tr>
<td>Rabbit</td>
<td>212</td>
</tr>
</tbody>
</table>

Remember, there are 60 minutes in 1 hour.

25. **Construct Arguments**  Is 3,198 a reasonable product for $727 \times 44$? Why or why not?

26. **Higher Order Thinking**  A garden store sells plants in flats. There are 6 plants in each tray. Each flat has 6 trays. The garden store sold 18 flats on Saturday and 21 flats on Sunday. How many plants did the garden store sell in all?

27. Tricia is building a rectangular patio. The patio will be 108 bricks wide and 19 bricks long. She has 2,000 bricks. Does she have enough bricks to build the patio? Explain. Show your work in the box.