

Student Guide

Completing the Table (SG p. 205)  
Questions 1–2

1.\* See lesson.

2.

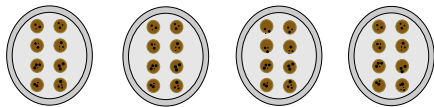
×	0	1	2	3	4	5	6	7	8	9	10
0	0	0	0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7	8	9	10
2	0	2	4	6	8	10	12	14	16	18	20
3	0	3	6	9	12	15	18	21	24	27	30
4	0	4	8	12	16	20	24	28	32	36	40
5	0	5	10	15	20	25	30	35	40	45	50
6	0	6	12	18	24	30	36	42	48	54	60
7	0	7	14	21	28	35	42	49	56	63	70
8	0	8	16	24	32	40	48	56	64	72	80
9	0	9	18	27	36	45	54	63	72	81	90
10	0	10	20	30	40	50	60	70	80	90	100

Homework (SG p. 206)  
Questions 1–27

- |        |        |        |
|--------|--------|--------|
| 1. 12  | 2. 42  | 3. 30  |
| 4. 20  | 5. 63  | 6. 8   |
| 7. 40  | 8. 64  | 9. 28  |
| 10. 0  | 11. 21 | 12. 54 |
| 13. 48 | 14. 56 | 15. 81 |
| 16. 35 | 17. 54 | 18. 24 |
| 19. 24 | 20. 24 | 21. 9  |
| 22. 32 | 23. 36 | 24. 49 |

For Questions 25–27, facts will vary. One possible response is given for each.

25. There were 4 plates of 8 cookies. How many cookies total?



$4 \times 8 = 32$

26. For  $0 \times 6$ , I know the product is 0 because 0 times any number is 0.
27. For  $6 \times 6$ , I know that  $3 \times 6 = 18$ . If I double that,  $6 \times 6 = 36$ .

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Using Strategies to Complete the Table

1. Look at the facts that you still need to complete your *My Multiplication Table* from Lessons 3 and 4. Talk with a partner about some strategies you could use to figure out the facts.

Here are two students' strategies for multiplying  $4 \times 6$ :

I used doubling to find  $4 \times 6$ . I know that  $2 \times 6 = 12$ . So, to get  $4 \times 6$ , I just doubled 6.  
 $4 \times 6 = 24$ .



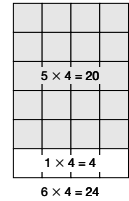
Roberto

I thought about  $6 \times 4$ . I know my fives, so I thought  $5 \times 4 = 20$ , and I only need one more 4. So I added four to 20:  $20 + 4 = 24$ .  $6 \times 4 = 24$ . Look, I can show you with a rectangle.



Kim

Kim explained her rectangle. "I broke the big rectangle for  $6 \times 4$  into two parts. The top part shows that 5 rows with 4 tiles in each row is 20 tiles. Then to get 6 rows, I just add on one more row of 4 tiles.  $20 + 4 = 24$ . So 6 rows will have 24 tiles.  $6 \times 4 = 24$ ."

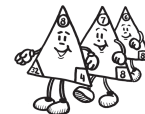


2. Complete your multiplication table using any strategy. When you find a fact, you can also record its turn-around fact. For  $4 \times 6$  the turn-around fact is  $6 \times 4$ .

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Homework



Find these products. Use your multiplication table and your completed *My Patterns for Remembering the Facts* chart.

- |  |  |  |
|--|--|--|
| 1. $3 \times 4 = ?$  | 2. $6 \times 7 = ?$  | 3. $6 \times 5 = ?$  |
| 4. $5 \times 4 = ?$  | 5. $7 \times 9 = ?$  | 6. $4 \times 2 = ?$  |
| 7. $8 \times 5 = ?$  | 8. $8 \times 8 = ?$  | 9. $7 \times 4 = ?$  |
| 10. $0 \times 6 = ?$                                       | 11. $7 \times 3 = ?$                                       | 12. $9 \times 6 = ?$                                       |
| 13. $6 \times 8 = ?$                                       | 14. $7 \times 8 = ?$                                       | 15. $9 \times 9 = ?$                                       |
| 16. $\begin{array}{r} 7 \\ \times 9 \\ \hline \end{array}$ | 17. $\begin{array}{r} 6 \\ \times 9 \\ \hline \end{array}$ | 18. $\begin{array}{r} 3 \\ \times 8 \\ \hline \end{array}$ |
| 19. $\begin{array}{r} 4 \\ \times 6 \\ \hline \end{array}$ | 20. $\begin{array}{r} 8 \\ \times 3 \\ \hline \end{array}$ | 21. $\begin{array}{r} 9 \\ \times 1 \\ \hline \end{array}$ |
| 22. $\begin{array}{r} 8 \\ \times 4 \\ \hline \end{array}$ | 23. $\begin{array}{r} 6 \\ \times 6 \\ \hline \end{array}$ | 24. $\begin{array}{r} 7 \\ \times 7 \\ \hline \end{array}$ |

Check-In: Questions 25-27

25. Choose one of the facts in Questions 1–24. Write a multiplication story about it. Draw a picture to go with your story. Write a number sentence.
26. Choose another fact from Questions 1–24. Describe a pattern that helps you solve this fact.
27. Choose another fact from Questions 1–24. Show or tell a strategy you can use to solve the fact.

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\*Answers and/or discussion are included in the lesson.