✓ Self-Check: Questions 1-3

Use the *Multiplication and Division Facts* chart in the *Student Guide* Reference section.

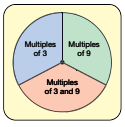
1. What are the multiples of 4 and 5 to 200?
2. What are the multiples of 6 and 8 to 200?
3. What are the multiples of 2, 4, 5, and 10 to 200?

Use the Self-Check Questions and the Workshop Menu to choose practice with finding multiples.

Workshop Menu

Can I Do This?	Working On It!	Getting It!	Got It!
	I could use some extra help.	I just need some more practice.	I'm ready for a challenge.
Name multiples of numbers.	★ Q# 4–5	● Q# 6	■ Q# 7

★4. Use the following steps to design a game board for the Multiples Cover-Up Game.



A. Look at the spinner. What multiples will you generate with this spinner?

B. List all the multiples of 3 to 200.

C. List all the multiples of 9 to 200.

D. Circle the numbers that are multiples of both 3 and 9.

E. What do you notice about the numbers you circled?

F. Use a blank game board on the *Multiples Cover-Up Game Boards* pages in the *Student Activity Book* to make a game board to use with this spinner. Write numbers that are multiples of both 3 and 9 on this game board.

G. Explain why this would be a great game board to use to play Multiples Cover-Up using the spinner in Question 4.

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Student Guide

Workshop: Finding Multiples (SG pp. 451–453)
Questions 1–7

1. 20, 40, 60, 80, 100, 120, 140, 160, 180, 200
2. 24, 48, 72, 96, 120, 144, 168, 192
3. 20, 40, 60, 80, 100, 120, 140, 160, 180, 200
4. **A.** Multiples of 3 and 9

   B. 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, 42, 45, 48, 51, 54, 57, 60, 63, 66, 69, 72, 75, 78, 81, 84, 87, 90, 93, 96, 99, 102, 105, 108, 111, 114, 117, 120, 123, 126, 129, 132, 135, 138, 141, 144, 147, 150, 153, 156, 159, 162, 165, 168, 171, 174, 177, 180, 183, 186, 189, 192, 195, 198

C–D. (9), (18), (27), (36), (45), (54), (63), (72), (81), (90), (99), (108), (117), (126), (135), (144), (153), (162), (171), (180), (189), (198)

E. All of the multiples of 9 are also multiples of 3.

F. Answers will vary

G. This would be a good game board because no matter what you spin on the spinner you will be able to cover up a square on your game board since they are all multiples of both 3 and 9.

5. Possible response: I chose numbers for my board that are multiples of both 3 and 4 so I could cover one number for each spin.

6. A. Board A is Poor; Board B is Great; Board C is Fabulous

B. Responses will vary. Two possible game boards are shown.

Fabulous

12	20	36	9
48	24	6	60
16	72	27	120
32	21	96	84

Poor

12	27	20	9
24	3	28	120
16	18	60	6
50	21	14	8

7. A. Board A is Fabulous; Board B is Great, Board C is Poor

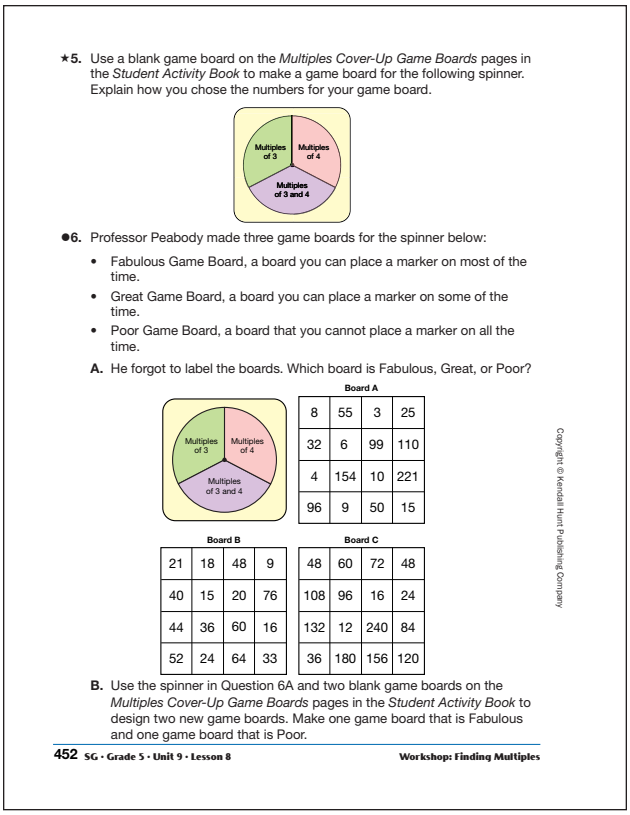
B. Responses will vary. Two possible game boards are shown.

Fabulous

20	16	80	120
50	100	60	48
15	40	180	24
40	90	140	12

Poor

12	20	45	15
27	2	40	120
16	10	60	24
50	25	100	36



★5. Use a blank game board on the *Multiples Cover-Up Game Boards* pages in the *Student Activity Book* to make a game board for the following spinner. Explain how you chose the numbers for your game board.

●6. Professor Peabody made three game boards for the spinner below:

- Fabulous Game Board, a board you can place a marker on most of the time.
- Great Game Board, a board you can place a marker on some of the time.
- Poor Game Board, a board that you cannot place a marker on all the time.

A. He forgot to label the boards. Which board is Fabulous, Great, or Poor?

Board A

8	55	3	25
32	6	99	110
4	154	10	221
96	9	50	15

Board B

21	18	48	9
40	15	20	76
44	36	60	16
52	24	64	33

Board C

48	60	72	48
108	96	16	24
132	12	240	84
36	180	156	120

B. Use the spinner in Question 6A and two blank game boards on the *Multiples Cover-Up Game Boards* pages in the *Student Activity Book* to design two new game boards. Make one game board that is Fabulous and one game board that is Poor.

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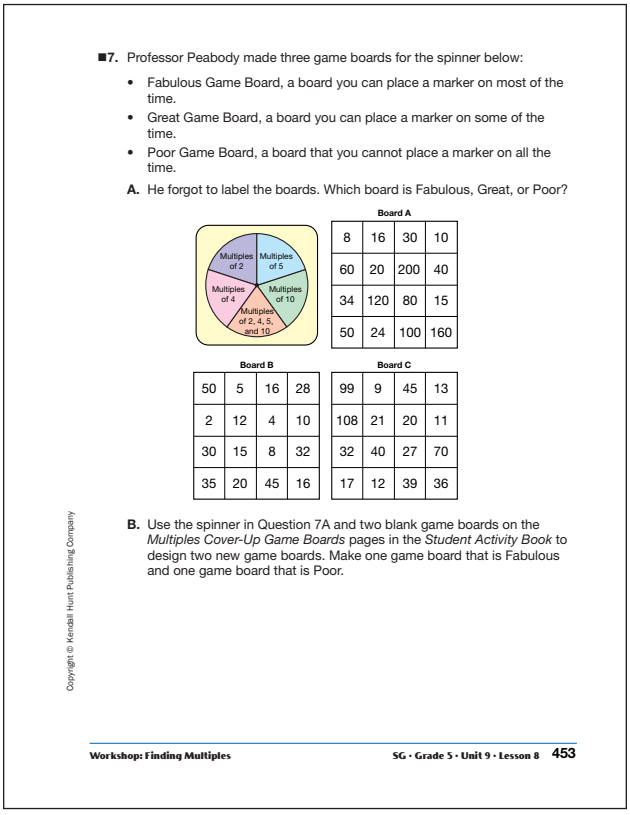

■7. Professor Peabody made three game boards for the spinner below:

- Fabulous Game Board, a board you can place a marker on most of the time.
- Great Game Board, a board you can place a marker on some of the time.
- Poor Game Board, a board that you cannot place a marker on all the time.

A. He forgot to label the boards. Which board is Fabulous, Great, or Poor?

Board A

8	16	30	10
60	20	200	40
34	120	80	15
50	24	100	160

Board B

50	5	16	28
2	12	4	10
30	15	8	32
35	20	45	16

Board C

99	9	45	13
108	21	20	11
32	40	27	70
17	12	39	36

B. Use the spinner in Question 7A and two blank game boards on the *Multiples Cover-Up Game Boards* pages in the *Student Activity Book* to design two new game boards. Make one game board that is Fabulous and one game board that is Poor.

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