

Discuss



After you have played *Product Bingo*, use these questions to compare all four boards.

1. Which game board had the most winning games?
2. Which game board had the fewest winning games?
3. Why do you think one game board won more than others? Explain.
4. Are there products that come up more often than others? Which ones? Why?
5. Which products come up the least often? Why?
6. Are there products that never come up by spinning the spinner?

Use the *Design Your Own Boards* page in your *Student Activity Book* to use factors to design a Best Game Board and a Worst Game Board.

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Student Guide

Questions 1–6 (SG p. 102)

- 1.* Board 3
- 2.* Board 2
- 3.* Answers will vary. Board 3 has five products that can be obtained in more than one way.
- 4.* Yes; Products that have more than two sets of factors will come up more often than those that are on the spinner other numbers. For this spinner, the products 12, 24, 18, and 36, are more likely to come-up.
- 5.* The primes come-up less often because they only have two factors, one and the number. One is not on the spinner, so the prime will never come up.
- 6.* Yes, prime numbers will never come up. See answer to Question 5 above.

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*Answer and/or discussion are included in the lesson.

Student Activity Book

Design Your Own Boards

Questions 1–4 (SAB pp. 83–84)

1. Answers will vary. A “Best” game board will have numbers that have many factors that are on the spinner. A “worst” game board will have many number that are prime or do not have a pair of factors on the spinner.
- 2–3.* Answer will vary. Students should discuss their choice of numbers for each board.
4. Answers will vary. They should explain that the numbers on the Best Game Board have many factors that can be spun. The numbers on the Worst Game Board do not have a lot of factors that can be spun on the spinner. They may be primes.

Date _____

Design Your Own Boards

1. Design your own Product Bingo game boards. The spinner is labeled with the numbers 2 through 9. Design a “Best” game board that is highly likely to win and a “Worst” game board that is unlikely to win.

Best

Worst

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Name _____ Date _____

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✓ **Check-In: Questions 2-3**

2. Describe how you chose numbers for the “Best” game board. Use terms such as “factors,” “multiples,” and “primes” in your description.
3. Describe how you chose numbers for the “Worst” game board. Use terms such as “factors,” “multiples,” and “primes” in your description.
4. Play Product Bingo using the game boards you designed. Did your “Best” game board win or not? Explain why.

Design Your Own Boards

Feedback Box

MP2: Show my work. I show or tell how I arrived at my answer so someone else can understand my thinking.

Yes...	Yes, but...	No, but...	No...
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*Answer and/or discussion are included in the lesson.