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Learn About

Using Algebra: Patterns

Number patterns follow *rules*. Tables can show number patterns. A rule is used with one number to find another number.

Find the rule. Look at each pair of IN and OUT numbers.

Ask these questions:

- Is the OUT number less than or greater than the IN number?
- What pattern has been done to the IN number?

Look at the IN and OUT table. Try to find the rule.

IN	1	2	3	4
OUT	8	9	10	11

Find the rule. The OUT numbers are greater than the IN numbers. A number has been added. Check each pair to find the number that is added.

$$1 + 7 = 8$$

$$2 + 7 = 9$$

$$3 + 7 = 10$$

$$4 + 7 = 11$$

The pattern is **add 7** to each IN number to get the OUT number.



Number patterns follow rules. Tables can show number patterns. A rule is used with one number to find another number.

Lesson

2

Read the passage.
Then do Numbers 1–5.

The Dinner Party

Sarah's cousins are coming to visit. There will be 12 people for dinner. Sarah is going to the shop with her mother to buy food. Her mother made a list of what they need to buy.



1. Sarah and her mother will buy rolls for dinner. They want to have 1 white roll and 1 wholemeal roll for each person at the dinner. Which number sentence can help Sarah find how many rolls to buy?

- Ⓐ $12 + 2 = \square$
- Ⓑ $12 - \square = 12$
- Ⓒ $12 + 12 = \square$
- Ⓓ $12 - 12 = \square$

2. Sarah and her mother have 10 items on their list. They already have 3 items in their trolley. Which number sentence can help Sarah find how many more items they need?

- Ⓐ $3 - \square = 10$
- Ⓑ $10 + 3 = \square$
- Ⓒ $\square - 10 = 3$
- Ⓓ $10 - 3 = \square$

3. Sarah and her mother bought 4 cans of corn and 2 cans of beans. Which number sentence can help Sarah find how many cans of vegetables they bought?

- Ⓐ $4 - 2 = \square$
- Ⓑ $6 - \square = 4$
- Ⓒ $4 + 2 = \square$
- Ⓓ $6 + \square = 13$

4. Sarah's cousin said that 5 people want turkey for dinner. Which number sentence can help Sarah find how many people do *not* want turkey?

- Ⓐ $12 - 5 = \square$
- Ⓑ $5 + 12 = \square$
- Ⓒ $5 - \square = 12$
- Ⓓ $\square + 12 = 12$

5. Sarah's cousins brought 2 extra people to dinner. How many people were at dinner that night? Write a number sentence with a \square . Then solve the number sentence. Show your work in the space below. Remember to check your solution.

Write your solution.

Explain how you found your solution.

Self-Assessment

Lessons 1-5

1

Answer these questions after you have completed Lessons 1-5.

FOCUS on Using Algebra, Book B

Name _____ Date _____

1. Rate your work in Lessons 1-5. Circle your answer.

great

good

could be better

2. Did any of the questions give you trouble? _____
If so, what kind of trouble did you have?

3. Complete this sentence. *I could have done even better in Lessons 1-5 if...*

4. What is your goal for Lessons 6-10?

Cut along the dotted line.