LESSON MAKER PRO

Pattern Switch-Up

Show a pattern in a new way.

GRADE 2 · 2.PFA.1.d

2.PFA.1.d "Transfer a given repeating or increasing pattern from one form to another (e.g., objects, pictures, numbers) and explain the connection between the two patterns."

NAME _____ **DATE** _____

THE BIG IDEA

A pattern can be shown with things, words, or numbers. Keep the same order or change each time, then show it in the new form.

WORKED EXAMPLE

A drum pattern has 4 beats in round 1, 8 beats in round 2, and 12 beats in round 3. Write the number pattern. Then write the beats for round 4.

1. Write the beats as numbers: 4, 8, 12.
2. Each round adds 4 beats.
3. Add 4 to 12 to get 16.

Answer: 4, 8, 12, 16. Round 4 has 16 beats.

PRACTICE 4 problems

1 Sofia stacks 1 block, then 3 blocks, then 5 blocks. Write the number pattern with the next stack.

ANSWER _____

2 Noah writes 3, 5, 7 for his toy car laps. His cars drive that many laps. How many laps will the next car drive?

ANSWER _____

3 The pet parade repeats dog, cat, dog, cat. Use 1 for dog and 2 for cat. Write the number pattern. What animal comes next?

ANSWER _____

4 Kai packs 5 grapes, then 7 grapes, then 9 grapes into lunch cups. Write the matching number pattern with the next cup.

ANSWER _____

APPLY IT Show your work

1 At the game booth, Inez wins 1 ticket, then 3 tickets, then 5 tickets on three turns. Write the ticket number pattern with one more turn. How many tickets does she win on that turn?

WORK SPACE

ANSWER _____

2 At dance club, the moves repeat hop, spin, clap. Use 1 for hop, 2 for spin, and 3 for clap. Write the number pattern for six moves. Then write the next move.

WORK SPACE

ANSWER _____

CHALLENGE One step up

The bracelet pattern is red, blue, blue, red, blue, blue. Use 1 for red and 2 for blue. Write the number pattern. Explain how the numbers match the colors.

WORK SPACE AND ANSWER

ANSWER KEY

Pattern Switch-Up

GRADE 2 · 2.PFA.1.d

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Sofia stacks 1 block, then 3 blocks, then 5 blocks. Write the number pattern with the next stack.	**1, 3, 5, 7**
2	Noah writes 3, 5, 7 for his toy car laps. His cars drive that many laps. How many laps will the next car drive?	**9 laps**
3	The pet parade repeats dog, cat, dog, cat. Use 1 for dog and 2 for cat. Write the number pattern. What animal comes next?	**1, 2, 1, 2; dog**
4	Kai packs 5 grapes, then 7 grapes, then 9 grapes into lunch cups. Write the matching number pattern with the next cup.	**5, 7, 9, 11**

PART 2 · APPLY IT

1. **1, 3, 5, 7; 7 tickets** The number of tickets goes up by 2 each turn. The next number after 5 is 7.
2. **1, 2, 3, 1, 2, 3; hop** Match each move to its number in order. After clap, the repeating pattern starts again with hop.

CHALLENGE

1, 2, 2, 1, 2, 2. The 1 means red and the 2 means blue, so 1, 2, 2 repeats.

Accept number patterns written with commas or spaces. For the challenge, accept any clear explanation that 1 stands for red, 2 stands for blue, and the three-number group repeats.