

Pattern Steps

Find the rule and continue each number pattern.

GRADE 2 • 2.PAR.4.1

2.PAR.4.1 "Identify, describe, and create a numerical pattern resulting from repeating an operation such as addition and subtraction."

NAME _____

DATE _____

FIND THE CHANGE

In a number pattern, the numbers change the same way each time. Look for the amount that is added or subtracted, then use that rule to find the next number.

WORKED EXAMPLE

A frog jumps to lily pads numbered 5, 10, 15, _____. What number is next?

1. Start at 5.
2. Add 5 to get 10.
3. Add 5 again to get 15.
4. Add 5 again to get 20.

Answer: 20

PRACTICE 5 problems

- 1** Toy car labels show 4, 9, 14, _____. What number comes next?

ANSWER _____

- 2** A pet shop sign shows 18, 16, 14, _____. What number comes next?

ANSWER _____

- 3** Fish bowl numbers are 9, 13, 17, _____. What number comes next?

ANSWER _____

- 4** Cookie jar labels show 25, 22, 19, _____. What number comes next?

ANSWER _____

- 5** A puppy's score cards show 7, 14, _____, 28. What number is missing?

ANSWER _____

APPLY IT Show your work

- 1** Lena earns 2 more game points at the end of each round. Her totals are 22, 24, 26, __. What will her next total be?

WORK SPACE

ANSWER _____

- 2** Noah has 32 prize tickets. He trades 3 tickets each turn. His tickets are 32, 29, 26, __. How many tickets does he have next?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

The scoreboard numbers are 30, 27, 24, 21. Jae says the rule is subtract 4. Is Jae correct? Write the correct rule.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Toy car labels show 4, 9, 14, __. What number comes next?	19
2	A pet shop sign shows 18, 16, 14, __. What number comes next?	12
3	Fish bowl numbers are 9, 13, 17, __. What number comes next?	21
4	Cookie jar labels show 25, 22, 19, __. What number comes next?	16
5	A puppy's score cards show 7, 14, __, 28. What number is missing?	21

PART 2 • APPLY IT

1. **28** The total increases by 2 each round. Add 2 to 26 to get 28.
2. **23** The number of tickets decreases by 3 each turn. Subtract 3 from 26 to get 23.

CHALLENGE**No. Subtract 3 each time.**

Accept the number alone for the practice and word problems. For the challenge, accept any clear statement that the pattern goes down by 3 each time.