LESSON MAKER PRO

Spot the Pattern

Use repeated reasoning to solve and check.

GRADE 6 · 6.MP.8

6.MP.8 "Look for and express regularity in repeated reasoning."

NAME _____ DATE _____

THE BIG IDEA

When the same amount repeats, find one group and count the groups. Multiply to solve, then check with repeated addition.

WORKED EXAMPLE

A library cart holds 11 graphic novels on each shelf. It has 2 shelves. How many novels does it hold?

1. One shelf holds 11 novels.
2. Add equal groups: 11 + 11 = 22.
3. Check: 11 x 2 = 22.

Answer: 22 graphic novels

PRACTICE 5 problems

1 A game awards 6 gems for each daily mission. Leo finishes 5 missions. How many gems does he earn? Show a multiplication check.

ANSWER _____

2 A music app adds 8 songs to a playlist each week. After 4 weeks, how many songs were added? Write the repeated addition you used.

ANSWER _____

3 At robotics club, each kit needs 7 batteries. The club prepares 6 kits. How many batteries are needed? Check with multiplication.

ANSWER _____

4 A snack stand puts 10 pretzels in each bag. It fills 4 bags. How many pretzels are packed? Show a check.

ANSWER _____

5 A runner completes 9 laps at each practice. Over 8 practices, how many laps does the runner complete? Check your pattern.

ANSWER _____

APPLY IT Show your work

1 A school store sells 15 keychains at each lunch. It sells keychains at 5 lunches. How many keychains does it sell? Explain how the total changes after each lunch.

WORK SPACE

ANSWER _____

2 A creator posts 13-second video clips. A montage uses 7 clips. How many seconds long is the montage? Use repeated reasoning to check.

WORK SPACE

ANSWER _____

CHALLENGE One step up

A game character starts with 18 energy points and gains 6 points after each completed stage. After 9 stages, how many energy points does the character have? Explain your reasoning.

WORK SPACE AND ANSWER

ANSWER KEY

Spot the Pattern

GRADE 6 · 6.MP.8

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	A game awards 6 gems for each daily mission. Leo finishes 5 missions. How many gems does he earn? Show a multiplication check.	**30 gems**
2	A music app adds 8 songs to a playlist each week. After 4 weeks, how many songs were added? Write the repeated addition you used.	**32 songs; 8 + 8 + 8 + 8 = 32**
3	At robotics club, each kit needs 7 batteries. The club prepares 6 kits. How many batteries are needed? Check with multiplication.	**42 batteries**
4	A snack stand puts 10 pretzels in each bag. It fills 4 bags. How many pretzels are packed? Show a check.	**40 pretzels**
5	A runner completes 9 laps at each practice. Over 8 practices, how many laps does the runner complete? Check your pattern.	**72 laps**

PART 2 · APPLY IT

1. **75 keychains** Each lunch adds 15 keychains. Multiply 15 x 5 = 75.
2. **91 seconds** Each clip adds 13 seconds. Multiply 13 x 7 = 91.

CHALLENGE

72 energy points; 18 + (9 x 6) = 72.

Accept multiplication or repeated addition as a check. For the challenge, accept an equivalent equation and a clear explanation that 6 points are added for each stage.