LESSON MAKER PRO

# Solve It Smart

*Plan, solve, and check each situation.*

**GRADE 6 · 6.MP.1**

**6.MP.1** "Make sense of problems and persevere in solving them."

NAME _____ DATE _____

## PLAN, SOLVE, CHECK

Read to find the question and the facts you need. Choose an operation, solve in steps, then check that your answer makes sense in the situation.

## WORKED EXAMPLE

A music club buys 6 boxes of 8 guitar picks. It gives 9 picks to a beginner group. How many picks remain?

1. Find the total: 6 x 8 = 48.
2. Subtract the picks given away: 48 - 9 = 39.
3. Check: 39 + 9 = 48.

**Answer: 39 guitar picks**

## PRACTICE 5 problems

**1** A gaming club makes 5 prize bags with 7 pins in each bag. How many pins are needed?

**ANSWER** _____

**2** A student puts 42 photos equally into 3 online albums. How many photos go in each album?

**ANSWER** _____

**3** A dance rehearsal lasts 57 minutes. Warm-up takes 17 minutes. The rest is shared equally among 4 routines. How many minutes does each routine get?

**ANSWER** _____

**4** Nora has $31 for school supplies. She buys 4 notebooks for $3 each. How much money is left?

**ANSWER** _____

**5** A bake sale makes 3 trays with 12 cookies on each tray. How many cookies are made?

**ANSWER** _____

## APPLY IT Show your work

**1** A new game costs $52. Four friends each give Jada $7 toward the game. How much does Jada need to pay?

WORK SPACE

**ANSWER** _____

**2** The robotics club has 75 name badges. After 15 members take one badge each, the club packs the rest in groups of 3. How many packs can it make?

WORK SPACE

**ANSWER** _____

## CHALLENGE One step up

A ticket booth has 125 tickets. It gives 21 tickets to each of 5 winners. Can it give 22 tickets to one more winner? Explain.

WORK SPACE AND ANSWER

**ANSWER KEY** # Solve It Smart

**GRADE 6 · 6.MP.1**

## PART 1 · PRACTICE

| # | PROBLEM | ANSWER |
|---|---|---|
| 1 | A gaming club makes 5 prize bags with 7 pins in each bag. How many pins are needed? | **35 pins** |
| 2 | A student puts 42 photos equally into 3 online albums. How many photos go in each album? | **14 photos** |
| 3 | A dance rehearsal lasts 57 minutes. Warm-up takes 17 minutes. The rest is shared equally among 4 routines. How many minutes does each routine get? | **10 minutes** |
| 4 | Nora has $31 for school supplies. She buys 4 notebooks for $3 each. How much money is left? | **$19** |
| 5 | A bake sale makes 3 trays with 12 cookies on each tray. How many cookies are made? | **36 cookies** |

## PART 2 · APPLY IT

1. **$24** The friends give 4 x 7 = $28. Subtract: 52 - 28 = $24.
2. **20 packs** First find the badges left: 75 - 15 = 60. Then divide: 60 / 3 = 20.

## CHALLENGE

**No. The booth gives away 5 x 21 = 105 tickets, leaving 20 tickets. It needs 2 more tickets.**

Accept correct equations and a reasonable check. For the challenge, students must state that 20 tickets remain and that 22 tickets are not available.