

Two-Step Quest

Use two operations to solve each problem.

GRADE 3 • NY-3.OA.8

NY-3.OA.8 "Solve two-step word problems posed with whole numbers and having whole-number answers using the four operations."

NAME _____

DATE _____

PLAN TWO STEPS

A two-step problem needs two operations. Decide what happens first, solve that part, and then use your answer to solve the second part. Write an equation to keep your work organized.

WORKED EXAMPLE

A class has 7 boxes of 6 markers. Then 5 more markers arrive. How many markers are there altogether?

1. Multiply to find the markers in the boxes: $7 \times 6 = 42$.
2. Add the extra markers: $42 + 5 = 47$.

Answer: 47 markers

PRACTICE 6 problems

- 1** A shelf holds 8 rows of 4 comic books. Then 3 more comic books are placed on the shelf. How many comic books are on the shelf?

ANSWER _____

- 2** 54 trading cards are placed equally into 9 sleeves. Then 2 new cards are added to one sleeve. How many cards are in that sleeve?

ANSWER _____

- 3** A baker made 81 muffins. She sold 17 muffins, then packed the rest into boxes of 8. How many boxes did she fill?

ANSWER _____

- 4** A class makes 9 groups of 3 paper stars. They use 11 stars for a display. How many paper stars are left?

ANSWER _____

- 5** 72 puzzle pieces are shared equally by 8 players. Each player finds 14 more pieces. How many pieces does each player have now?

ANSWER _____

- 6** A team earns 45 points in the morning and 27 points in the afternoon. The points are shared equally among 9 players. How many points does each player get?

ANSWER _____

APPLY IT Show your work

- 1** At an arcade, 4 teams collect 9 tokens each. A bonus jar gives the teams 12 more tokens altogether. How many tokens do the teams have altogether?

WORK SPACE

ANSWER _____

- 2** Rae sorts 96 photo cards equally onto 8 album pages. She adds 3 special cards to each page. How many cards are on each page now?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A robot club puts 64 badges equally into 8 bags. Then the club adds 9 new badges to each bag. How many badges are in each bag now? Write the two equations you used.

WORK SPACE AND ANSWER

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	A shelf holds 8 rows of 4 comic books. Then 3 more comic books are placed on the shelf. How many comic books are on the shelf?	35 comic books
2	54 trading cards are placed equally into 9 sleeves. Then 2 new cards are added to one sleeve. How many cards are in that sleeve?	8 cards
3	A baker made 81 muffins. She sold 17 muffins, then packed the rest into boxes of 8. How many boxes did she fill?	8 boxes
4	A class makes 9 groups of 3 paper stars. They use 11 stars for a display. How many paper stars are left?	16 paper stars
5	72 puzzle pieces are shared equally by 8 players. Each player finds 14 more pieces. How many pieces does each player have now?	23 pieces
6	A team earns 45 points in the morning and 27 points in the afternoon. The points are shared equally among 9 players. How many points does each player get?	8 points

PART 2 • APPLY IT

- 48 tokens** Multiply $4 \times 9 = 36$ tokens. Then add 12 to get 48 tokens.
- 15 cards** Divide $96 \div 8 = 12$ cards on each page. Then add 3 special cards to get 15 cards per page.

CHALLENGE

$64 \div 8 = 8$; $8 + 9 = 17$. There are 17 badges in each bag.

Accept correct equations with parentheses or steps shown in a different order when the first operation is clear. For the challenge, accept 17 badges with two correct equations.