LESSON MAKER PRO

Two-Step Stories

Write an equation, solve, and check your answer.

GRADE 3 · MT.3.OA.8

MT.3.OA.8 "Solve two-step problems in context using the four operations, represent these problems using equations with a letter standing for the unknown quantity and assess the reasonableness of answers using mental computation and estimation..."

NAME _____ DATE _____

TWO STEPS, ONE ANSWER

Decide what happens first in the story, then write an equation using ___ for the unknown number. Solve one step at a time, and use mental math to check if your answer makes sense.

WORKED EXAMPLE

Nico has 7 packs of 9 cards. He gives away 11 cards. How many cards are left?

1. Write the equation: ___ = 7 × 9 - 11.
2. Find the total: 7 × 9 = 63.
3. Subtract the cards given away: 63 - 11 = 52.

Answer: 52 cards

PRACTICE 6 problems

1 Mia has 4 boxes with 6 crayons in each. She gives away 5 crayons. How many crayons does she have left? Write an equation with ___ and solve.

ANSWER _____

2 A group has 30 apples. They put 12 on a table and share the rest equally among 3 baskets. How many apples go in each basket? Write an equation with ___ and solve.

ANSWER _____

3 Owen has 16 marbles. He wins 8 more, then puts all his marbles equally into 4 bags. How many marbles are in each bag? Write an equation with ___ and solve.

ANSWER _____

4 There are 5 teams with 6 players on each team. Then 8 more players join. How many players are there now? Write an equation with ___ and solve.

ANSWER _____

5 Lena has 40 beads. She makes 3 bracelets using 8 beads for each bracelet. How many beads remain? Write an equation with ___ and solve.

ANSWER _____

6 A food stand makes 36 muffins. It sells 18, then packs the rest equally into 6 boxes. How many muffins are in each box? Write an equation with ___ and solve.

ANSWER _____

APPLY IT Show your work

1 At a Montana school library, 4 shelves each hold 8 books by Blackfeet authors. Students check out 6 books. How many books are left on the shelves? Write an equation with ___, solve, and use an estimate to check your answer.

WORK SPACE

ANSWER _____

2 At a Montana community center, volunteers set out 24 seed packets for a garden. They use 6 packets and share the rest equally among 3 classrooms. How many packets does each classroom get? Write an equation with ___, solve, and use mental math to check your answer.

WORK SPACE

ANSWER _____

CHALLENGE One step up

A class packs 48 pencils equally into 6 bins. Then they add 5 more pencils to each bin. Sam says each bin now has 53 pencils. Write an equation with ___, find the correct number in each bin, and explain using mental math why Sam's answer is not reasonable.

WORK SPACE AND ANSWER

Two-Step Stories

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Mia has 4 boxes with 6 crayons in each. She gives away 5 crayons. How many crayons does she have left? Write an equation with ___ and solve.	**___ = 4 × 6 - 5; 19 crayons**
2	A group has 30 apples. They put 12 on a table and share the rest equally among 3 baskets. How many apples go in each basket? Write an equation with ___ and solve.	**___ = (30 - 12) ÷ 3; 6 apples**
3	Owen has 16 marbles. He wins 8 more, then puts all his marbles equally into 4 bags. How many marbles are in each bag? Write an equation with ___ and solve.	**___ = (16 + 8) ÷ 4; 6 marbles**
4	There are 5 teams with 6 players on each team. Then 8 more players join. How many players are there now? Write an equation with ___ and solve.	**___ = 5 × 6 + 8; 38 players**
5	Lena has 40 beads. She makes 3 bracelets using 8 beads for each bracelet. How many beads remain? Write an equation with ___ and solve.	**___ = 40 - 3 × 8; 16 beads**
6	A food stand makes 36 muffins. It sells 18, then packs the rest equally into 6 boxes. How many muffins are in each box? Write an equation with ___ and solve.	**___ = (36 - 18) ÷ 6; 3 muffins**

PART 2 · APPLY IT

1. **___ = 4 × 8 - 6; 26 books** There are 32 books before students check out 6, leaving 26. Four groups of 8 are about 30, and 30 - 6 = 24, which is close to 26.
2. **___ = (24 - 6) ÷ 3; 6 packets per classroom** After volunteers use 6 packets, 18 remain, and 18 ÷ 3 = 6. As a check, 3 groups of 6 make 18, and 18 + 6 = 24.

CHALLENGE

___ = 48 ÷ 6 + 5; 13 pencils per bin. Since 48 ÷ 6 = 8, each bin has 8 + 5 = 13 pencils, not 53.

Accept equivalent equations that use ___ for the unknown and follow the order of events. Accept other mental-math or estimation checks that correctly support the answer.