LESSON MAKER PRO

Find the Missing Number

Write an equation with ____, then solve.

GRADE 4 · 4.OA.A.3.a

4.OA.A.3.a "Write equations to show solutions for multi-step word problems with a letter standing for the unknown quantity."

NAME _____ DATE _____

PLAN THE STEPS

Use ___ to stand for the number you need to find. Write an equation that shows what happens in the story, then solve it in the right order.

WORKED EXAMPLE

A club has 13 packs of 6 stickers. It gives away 5 stickers. How many stickers are left?

1. Write the equation: 13 × 6 - 5 = ___.
2. Multiply: 13 × 6 = 78.
3. Subtract: 78 - 5 = 73.

Answer: ___ = 73 stickers

PRACTICE 6 problems

1 Kai has 8 packs of 12 trading cards. He gives away 20 cards. How many cards does he have left? Write an equation with ___.

ANSWER _____

2 A maker splits 48 beads equally among 4 bracelets, then adds 2 more beads to each bracelet. How many beads are on each bracelet? Write an equation with ___.

ANSWER _____

3 Mia has 24 marbles. She gets 2 bags with 10 marbles in each. She shares all the marbles equally among 4 friends. How many does each friend get? Write an equation with ___.

ANSWER _____

4 A booth has 90 tickets. Each of 3 teams uses 18 tickets. How many tickets are left? Write an equation with ___.

ANSWER _____

5 A cook puts 72 apple slices on plates, with 8 slices on each plate. The cook serves 2 plates. How many full plates are left? Write an equation with ___.

ANSWER _____

6 Four players each put 15 coins in a game bank. They add 28 bonus coins, then split all the coins into 2 equal piles. How many coins are in each pile? Write an equation with ___.

ANSWER _____

APPLY IT Show your work

1 Eight friends share 144 game tokens equally. Each friend spends 11 tokens on a prize. How many tokens does each friend have left? Write an equation with ___.

WORK SPACE

ANSWER _____

2 The art club has 3 boxes of 24 paintbrushes. It gives 16 paintbrushes to the library and shares the rest equally among 4 classrooms. How many paintbrushes does each classroom get? Write an equation with ___.

WORK SPACE

ANSWER _____

CHALLENGE One step up

A school club had some game cards. It bought 4 packs of 18 cards, then gave away 27 cards. It now has 119 cards. How many cards did it have at first? Write an equation with ___ for the starting number.

WORK SPACE AND ANSWER

ANSWER KEY

Find the Missing Number

GRADE 4 · 4.OA.A.3.a

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Kai has 8 packs of 12 trading cards. He gives away 20 cards. How many cards does he have left? Write an equation with ___.	**8 × 12 - 20 = ___; ___ = 76 cards**
2	A maker splits 48 beads equally among 4 bracelets, then adds 2 more beads to each bracelet. How many beads are on each bracelet? Write an equation with ___.	**48 / 4 + 2 = ___; ___ = 14 beads**
3	Mia has 24 marbles. She gets 2 bags with 10 marbles in each. She shares all the marbles equally among 4 friends. How many does each friend get? Write an equation with ___.	**(24 + 2 × 10) / 4 = ___; ___ = 11 marbles**
4	A booth has 90 tickets. Each of 3 teams uses 18 tickets. How many tickets are left? Write an equation with ___.	**90 - 3 × 18 = ___; ___ = 36 tickets**
5	A cook puts 72 apple slices on plates, with 8 slices on each plate. The cook serves 2 plates. How many full plates are left? Write an equation with ___.	**72 / 8 - 2 = ___; ___ = 7 plates**
6	Four players each put 15 coins in a game bank. They add 28 bonus coins, then split all the coins into 2 equal piles. How many coins are in each pile? Write an equation with ___.	**(4 × 15 + 28) / 2 = ___; ___ = 44 coins**

PART 2 · APPLY IT

1. **144 / 8 - 11 = ___; ___ = 7 tokens** Each friend gets 18 tokens. Subtract the 11 tokens each friend spends.
2. **(3 × 24 - 16) / 4 = ___; ___ = 14 paintbrushes** The club has 72 paintbrushes at first and 56 after the gift. Divide 56 by 4.

CHALLENGE

___ + 4 × 18 - 27 = 119; ___ = 74 cards

Accept equivalent equations that use ___ for the requested unknown and show the correct order of operations. Students may use a separate equation for each step.