LESSON MAKER PRO

First Things First

Write an equation, then solve two-step problems.

GRADE 3 · 3.OA.8a

3.OA.8a "Solve two-step word problems (limited to the whole number system) using the four basic operations. Students should apply the Order of Operations when there are no parentheses to specify a particular order..."

NAME _____ DATE _____

WHICH STEP COMES FIRST?

Use ___ for the number you need to find. When an equation has no parentheses, multiply or divide before you add or subtract.

WORKED EXAMPLE

A class has 19 stickers. It gets 7 packs with 3 stickers in each pack. How many stickers does the class have now?

1. Write an equation: ___ = 19 + 7 × 3
2. Multiply first: 7 × 3 = 21
3. Add: 19 + 21 = 40

Answer: 40 stickers

PRACTICE 6 problems

1 Mia has 12 beads and buys 4 bags with 6 beads in each bag. How many beads does she have? Write an equation with ___ and solve.

ANSWER _____

2 A game has 50 tokens. Eight players each take 4 tokens. How many tokens are left? Write an equation with ___ and solve.

ANSWER _____

3 A teacher shares 36 pencils equally among 6 tables, then puts 9 more pencils on each table. How many pencils are on each table? Write an equation with ___ and solve.

ANSWER _____

4 A shelf holds 28 books. Four students each borrow 6 books. How many books remain? Write an equation with ___ and solve.

ANSWER _____

5 There are 48 grapes shared equally among 8 bowls. Then 11 grapes are added to each bowl. How many grapes are in each bowl? Write an equation with ___ and solve.

ANSWER _____

6 A player earns 9 points in each of 4 rounds and then loses 10 points. What is the player's score? Write an equation with ___ and solve.

ANSWER _____

APPLY IT Show your work

1 At a school fair, a group has 64 tickets. Six friends each use 8 tickets to play games. How many tickets does the group have left? Write an equation with ___ and solve.

WORK SPACE

ANSWER _____

2 At an arcade, 54 tickets are shared equally among 9 friends. Each friend then wins 12 more tickets. How many tickets does each friend have now? Write an equation with ___ and solve.

WORK SPACE

ANSWER _____

CHALLENGE One step up

Noah says ___ = 72 - 6 × 8 equals 528 because he subtracted first. What is the correct value of ___? Explain in one sentence why Noah's answer is wrong.

WORK SPACE AND ANSWER

ANSWER KEY

First Things First

GRADE 3 · 3.OA.8a

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Mia has 12 beads and buys 4 bags with 6 beads in each bag. How many beads does she have? Write an equation with ___ and solve.	**___ = 12 + 4 × 6; 36 beads**
2	A game has 50 tokens. Eight players each take 4 tokens. How many tokens are left? Write an equation with ___ and solve.	**___ = 50 - 8 × 4; 18 tokens**
3	A teacher shares 36 pencils equally among 6 tables, then puts 9 more pencils on each table. How many pencils are on each table? Write an equation with ___ and solve.	**___ = 36 ÷ 6 + 9; 15 pencils**
4	A shelf holds 28 books. Four students each borrow 6 books. How many books remain? Write an equation with ___ and solve.	**___ = 28 - 4 × 6; 4 books**
5	There are 48 grapes shared equally among 8 bowls. Then 11 grapes are added to each bowl. How many grapes are in each bowl? Write an equation with ___ and solve.	**___ = 48 ÷ 8 + 11; 17 grapes**
6	A player earns 9 points in each of 4 rounds and then loses 10 points. What is the player's score? Write an equation with ___ and solve.	**___ = 9 × 4 - 10; 26 points**

PART 2 · APPLY IT

1. **___ = 64 - 6 × 8; 16 tickets** The friends use 48 tickets in all. Subtract 48 from 64.
2. **___ = 54 ÷ 9 + 12; 18 tickets** Each friend starts with 6 tickets. Add the 12 tickets each friend wins.

CHALLENGE

___ = 24 because 6 × 8 = 48 must be done before 72 - 48.

Accept equivalent equations that use ___ for the unknown and follow the story. In the challenge, the explanation must show that multiplication comes before subtraction.