LESSON MAKER PRO

Two-Step Missions

Write an equation with ___ for each problem, then solve.

GRADE 3 · 3.OA.8

3.OA.8 "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 _____

CHOOSE THE ORDER

When an equation has no parentheses, multiply or divide before you add or subtract. If it has parentheses, do that part first. Estimate to check whether your answer makes sense.

WORKED EXAMPLE

There are 5 boxes with 6 crayons in each box. A class gives away 9 crayons. How many remain?

1. Write an equation: ___ = 5 × 6 - 9.
2. Multiply: 5 × 6 = 30.
3. Subtract: 30 - 9 = 21.

Answer: 21 crayons

PRACTICE 6 problems

1 There are 3 trays with 10 muffins on each tray. Kids eat 2 muffins. How many muffins are left?

ANSWER _____

2 A group shares 32 trading cards equally among 4 friends. Each friend finds 2 more cards. How many cards does each friend have now?

ANSWER _____

3 A bin holds 14 pencils. A teacher adds 2 packs of 4 pencils. How many pencils are in the bin now?

ANSWER _____

4 A teacher puts 40 markers into bags with 4 markers in each bag. She gives away 3 bags. How many bags remain?

ANSWER _____

5 You have 26 game tokens. You spend 2 tokens in each of 4 rounds. How many tokens remain?

ANSWER _____

6 A shop has 20 toy cars and gets 12 more. It packs all the cars into 4 equal boxes. How many cars are in each box?

ANSWER _____

APPLY IT Show your work

1 A school club has 3 boxes of 18 bookmarks each. Club members hand out 14 bookmarks. How many bookmarks remain? Use an estimate to check your answer.

WORK SPACE

ANSWER _____

2 At a school fair, 76 tickets are shared equally among 4 friends. Each friend uses 2 tickets. How many tickets does each friend have left? Use an estimate to check your answer.

WORK SPACE

ANSWER _____

CHALLENGE One step up

A craft club has 38 beads. It buys 4 packs with 12 beads in each pack, then shares all the beads equally between 2 teams. How many beads does each team get? Write an equation, explain why you divide last, and use an estimate to check.

WORK SPACE AND ANSWER

ANSWER KEY

Two-Step Missions

GRADE 3 · 3.OA.8

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	There are 3 trays with 10 muffins on each tray. Kids eat 2 muffins. How many muffins are left?	**___ = 3 × 10 - 2; 28 muffins**
2	A group shares 32 trading cards equally among 4 friends. Each friend finds 2 more cards. How many cards does each friend have now?	**___ = 32 ÷ 4 + 2; 10 cards**
3	A bin holds 14 pencils. A teacher adds 2 packs of 4 pencils. How many pencils are in the bin now?	**___ = 14 + 2 × 4; 22 pencils**
4	A teacher puts 40 markers into bags with 4 markers in each bag. She gives away 3 bags. How many bags remain?	**___ = 40 ÷ 4 - 3; 7 bags**
5	You have 26 game tokens. You spend 2 tokens in each of 4 rounds. How many tokens remain?	**___ = 26 - 2 × 4; 18 tokens**
6	A shop has 20 toy cars and gets 12 more. It packs all the cars into 4 equal boxes. How many cars are in each box?	**___ = (20 + 12) ÷ 4; 8 cars**

PART 2 · APPLY IT

1. **___ = 3 × 18 - 14; 40 bookmarks** There are 54 bookmarks at first, and 54 - 14 = 40. Estimating 18 as 20 and 14 as 10 gives 3 × 20 - 10 = 50, which is close to 40.
2. **___ = 76 ÷ 4 - 2; 17 tickets** Each friend gets 19 tickets, then has 17 left. Estimating 76 as 80 gives 80 ÷ 4 - 2 = 18, which is close to 17.

CHALLENGE

___ = (38 + 4 × 12) ÷ 2; 43 beads per team. Divide last because the teams share all the beads; estimating (40 + 4 × 10) ÷ 2 = 40 shows that 43 is reasonable.

Accept equivalent equations with ___ standing for the unknown. Estimates may vary if they use nearby, easy-to-calculate numbers and support the exact answer.