

Math in Action

Use math to solve and check everyday situations.

GRADES K-12 • MA.K12.MTR.7

MA.K12.MTR.7 "Apply mathematics to real-world contexts."

NAME _____

DATE _____

PLAN, SOLVE, CHECK

Read the situation, decide what the quantities mean, and choose an operation that matches the story. Write an equation, solve carefully, then check whether your answer makes sense in the situation. Use labels, such as cards or minutes, so your answer tells what you found.

WORKED EXAMPLE

A school garden has 15 seedlings in each of 4 rows. Then 3 seedlings do not grow. How many seedlings grow?

1. Find the total planted: $15 \times 4 = 60$.
2. Subtract the seedlings that did not grow: $60 - 3 = 57$.
3. Check: $57 + 3 = 60$, so the result fits the story.

Answer: 57 seedlings grow.

PRACTICE 6 problems

- 1** Ava puts 8 trading cards on each of 7 album pages. How many cards does she put in the album? Write an equation, solve, and check with a related fact.

ANSWER _____

- 2** The school store has 45 pencils. It puts the pencils into 5 equal cups. How many pencils are in each cup? Write an equation, solve, and check.

ANSWER _____

- 3** A music teacher has 26 rhythm cards. She buys 18 more rhythm cards. How many rhythm cards does she have now? Write an equation, solve, and check.

ANSWER _____

- 4** Noah has 72 beads for a bracelet project. He shares them equally among 8 bracelets. How many beads go on each bracelet? Write an equation, solve, and check.

ANSWER _____

- 5** A game club buys 11 packs of 6 tokens. How many tokens does the club buy? Write an equation, solve, and check.

ANSWER _____

- 6** At a reading event, 63 minutes are shared equally among 7 book talks. How many minutes does each book talk get? Write an equation, solve, and check.

ANSWER _____

APPLY IT Show your work

- 1** A robotics club has 84 batteries in packs of 6. Eight teams each need one pack. How many packs will be left after every team gets a pack? Show your equations and check your answer.

WORK SPACE

ANSWER _____

- 2** At a school fair, a class sells 8 pencil sets for \$7 each and 5 bookmarks for \$2 each. The class spends \$16 on signs. How much money does the class have after paying for the signs? Show your equations and check your answer.

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A library receives 132 new books. It puts 7 books on each of 10 shelves, then shares the rest equally between 2 display tables. How many books go on each display table? Show your equations and explain how you checked your answer.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Ava puts 8 trading cards on each of 7 album pages. How many cards does she put in the album? Write an equation, solve, and check with a related fact.	56 cards. Equation: $8 \times 7 = 56$. Check: $56 \div 8 = 7$.
2	The school store has 45 pencils. It puts the pencils into 5 equal cups. How many pencils are in each cup? Write an equation, solve, and check.	9 pencils in each cup. Equation: $45 \div 5 = 9$. Check: $9 \times 5 = 45$.
3	A music teacher has 26 rhythm cards. She buys 18 more rhythm cards. How many rhythm cards does she have now? Write an equation, solve, and check.	44 rhythm cards. Equation: $26 + 18 = 44$. Check: $44 - 18 = 26$.
4	Noah has 72 beads for a bracelet project. He shares them equally among 8 bracelets. How many beads go on each bracelet? Write an equation, solve, and check.	9 beads on each bracelet. Equation: $72 \div 8 = 9$. Check: $9 \times 8 = 72$.
5	A game club buys 11 packs of 6 tokens. How many tokens does the club buy? Write an equation, solve, and check.	66 tokens. Equation: $11 \times 6 = 66$. Check: $66 \div 6 = 11$.
6	At a reading event, 63 minutes are shared equally among 7 book talks. How many minutes does each book talk get? Write an equation, solve, and check.	9 minutes for each book talk. Equation: $63 \div 7 = 9$. Check: $9 \times 7 = 63$.

PART 2 • APPLY IT

- 6 packs will be left. $84 \div 6 = 14$ packs, and $14 - 8 = 6$. Check: $8 + 6 = 14$.** Divide to find 14 total packs, then subtract the 8 packs given to teams. Check that the used and left packs total 14.
- \$50. $8 \times \$7 = \56 , $5 \times \$2 = \10 , and $\$56 + \$10 - \$16 = \50 . Check: $\$50 + \$16 = \$66$.** Find the money from each type of item, add the amounts, then subtract the cost of the signs. The total earned before paying for signs is \$66.

CHALLENGE

31 books go on each display table. First, $7 \times 10 = 70$ books go on shelves. Then $132 - 70 = 62$, and $62 \div 2 = 31$. Check: $70 + 62 = 132$.

Accept equivalent equations and correct labeled answers. For checks, accept any accurate related operation or explanation that shows the answer fits the situation.