

Multiply, Divide, Decide

Solve equal-group problems and make sense of remainders.

GRADE 4 • TEKS 4.4.H

4.4.H "solve with fluency one- and two-step problems involving multiplication and division, including interpreting remainders."

NAME _____

DATE _____

PLAN THE GROUPS

Use multiplication to find the total in equal groups. Use division to split a total into equal groups. In a two-step problem, solve one operation at a time, then decide what the remainder means in the situation.

WORKED EXAMPLE

Find 17×8 .

1. 17×8 means 8 equal groups of 17.
2. Add 17 eight times.
3. $17 + 17 + 17 + 17 + 17 + 17 + 17 + 17 = 136$.

Answer: 136

PRACTICE 6 problems

1 $9 \times 5 = \underline{\hspace{2cm}}$

ANSWER _____

2 $84 \div 7 = \underline{\hspace{2cm}}$

ANSWER _____

- 3** 58 buttons are shared equally among 3 art tables. How many buttons does each table get, and how many are left over?

ANSWER _____

- 4** 9 folders hold 7 trading cards each. The cards are shared equally among 3 players. How many cards does each player get?

ANSWER _____

- 5** 73 beads are placed into strings of 10 beads. How many full strings can be made, and how many beads are left?

ANSWER _____

- 6** A shuttle holds 12 students. If 49 students need a ride, how many shuttles are needed?

ANSWER _____

APPLY IT Show your work

- 1** Nia completes 9 game levels and earns 7 tickets for each level. A mystery keychain costs 5 tickets. How many keychains can Nia buy, and how many tickets will be left?

WORK SPACE

ANSWER _____

- 2** At a robotics meeting, 95 charged batteries are ready. Each mini robot needs 6 batteries. How many mini robots can be powered, and how many batteries will remain?

WORK SPACE

ANSWER _____

CHALLENGE One step up

At a comic swap, 7 boxes have 9 comics each. The comics are put into bundles of 5. Each full bundle is given to one visitor. How many visitors get a full bundle, and how many comics are left?

WORK SPACE AND ANSWER

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	$9 \times 5 = \underline{\quad}$	45
2	$84 \div 7 = \underline{\quad}$	12
3	58 buttons are shared equally among 3 art tables. How many buttons does each table get, and how many are left over?	19 R1
4	9 folders hold 7 trading cards each. The cards are shared equally among 3 players. How many cards does each player get?	21
5	73 beads are placed into strings of 10 beads. How many full strings can be made, and how many beads are left?	7 full strings, 3 beads left
6	A shuttle holds 12 students. If 49 students need a ride, how many shuttles are needed?	5 shuttles

PART 2 • APPLY IT

- 12 keychains, 3 tickets left** Find the total tickets first: $9 \times 7 = 63$. Then divide: $63 \div 5 = 12 \text{ R}3$.
- 15 mini robots, 5 batteries remain** Divide the batteries into groups of 6: $95 \div 6 = 15 \text{ R}5$.

CHALLENGE

12 visitors get a full bundle, with 3 comics left

Accept standard remainder notation or a clear statement of leftovers. For the shuttle item, accept only an answer that rounds up so every student has a seat.