LESSON MAKER PRO

Remainder Decisions

Use the situation to decide what the quotient and remainder mean.

GRADE 4 · 4.CE.2.k

4.CE.2.k "Interpret the quotient and remainder when solving a contextual problem."

NAME _____ DATE _____

WHAT DOES THE REMAINDER TELL YOU?

Divide to find how many equal groups you can make or how many are in each group. Then use the situation. A remainder may be left over, or it may mean you need one more group.

WORKED EXAMPLE

43 game tokens are packed into bags that hold 6 tokens each. How many full bags can be packed, and how many tokens are left over?

1. 43 ÷ 6 = 7 R1.
2. 7 bags hold 7 × 6 = 42 tokens.
3. 1 token is left over.

Answer: 7 full bags and 1 token left over

PRACTICE 6 problems

1 58 library books are packed into boxes that hold 7 books each. How many full boxes can be packed, and how many books are left?

ANSWER _____

2 65 students are riding to a museum. Each van holds 8 students. How many vans are needed?

ANSWER _____

3 74 trading cards are shared equally among 9 players. How many cards does each player get, and how many cards are left?

ANSWER _____

4 96 juice boxes are packed into crates of 12. How many crates are filled?

ANSWER _____

5 83 pencils are put into packs of 10. How many full packs can be made, and how many pencils are left?

ANSWER _____

6 52 racers form teams of 5. How many complete teams can they form, and how many racers are not on a complete team?

ANSWER _____

APPLY IT Show your work

1 At a school concert, 127 guests must sit at tables that hold 12 guests each. How many tables are needed so every guest has a seat?

WORK SPACE

ANSWER _____

2 Keira has 89 beads. She uses 4 beads for each identical keychain and makes as many full keychains as she can. How many keychains can she make, and how many beads will be left?

WORK SPACE

ANSWER _____

CHALLENGE One step up

109 photos will be placed in an album. Each page holds 8 photos. Maya says she needs 13 pages because 109 ÷ 8 = 13 R5. Is Maya correct? Explain how the remainder changes the number of pages needed.

WORK SPACE AND ANSWER

ANSWER KEY

Remainder Decisions

GRADE 4 · 4.CE.2.k

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	58 library books are packed into boxes that hold 7 books each. How many full boxes can be packed, and how many books are left?	**8 full boxes and 2 books left**
2	65 students are riding to a museum. Each van holds 8 students. How many vans are needed?	**9 vans**
3	74 trading cards are shared equally among 9 players. How many cards does each player get, and how many cards are left?	**8 cards each and 2 cards left**
4	96 juice boxes are packed into crates of 12. How many crates are filled?	**8 crates**
5	83 pencils are put into packs of 10. How many full packs can be made, and how many pencils are left?	**8 full packs and 3 pencils left**
6	52 racers form teams of 5. How many complete teams can they form, and how many racers are not on a complete team?	**10 complete teams and 2 racers left**

PART 2 · APPLY IT

1. **11 tables** 127 ÷ 12 = 10 R7. Ten tables seat 120 guests, so 7 more guests need an 11th table.
2. **22 keychains and 1 bead left** 89 ÷ 4 = 22 R1. Keira can make 22 full keychains, with 1 bead remaining.

CHALLENGE

No. 13 pages hold 104 photos, so 5 photos still need a page. Maya needs 14 pages.

Accept equivalent wording for leftovers, such as "2 remaining" or "2 extra." For situations asking how many vans, tables, or pages are needed, students must use one more than the quotient when there is a remainder.