

Problem Path Power

Solve each step and make sense of leftovers.

GRADE 4 • NY-4.OA.3

NY-4.OA.3 "Solve multistep word problems posed with whole numbers and having whole-number answers using the four operations, including problems in which remainders must be interpreted."

NAME _____

DATE _____

PLAN EACH STEP

For a multistep problem, decide what happens first, then write an equation for each step. If there is a remainder, decide whether items are left over or whether another group is needed.

WORKED EXAMPLE

A museum has 7 groups that reserve 18 tickets each. Then 15 tickets are canceled. How many tickets are still reserved?

1. $7 \times 18 = 126$ tickets reserved at first.

2. $126 - 15 = 111$ tickets still reserved.

Answer: 111 tickets

PRACTICE 6 problems

- 1** There are 9 packs of 6 pencils. Then 11 pencils are used. How many pencils are left?

ANSWER _____

- 2** A teacher puts 84 stickers equally onto 4 prize sheets. She adds 5 more stickers to each sheet. How many stickers are on each sheet?

ANSWER _____

- 3** A camp planned for 5 buses with 32 campers assigned to each bus. Then 20 campers are absent. How many campers are going?

ANSWER _____

- 4** A snack stand has 73 juice boxes. It packs 8 juice boxes in each cooler. How many full coolers can it pack, and how many juice boxes are left?

ANSWER _____

- 5** Ninety-six game cards are shared equally among 3 players. Each player gives 9 cards to a friend. How many cards does each player have now?

ANSWER _____

- 6** A toy shop has 11 bins holding 9 balls each. It sells 14 balls. How many balls remain?

ANSWER _____

APPLY IT Show your work

- 1** The robotics club has 128 players. They form teams of 4 players each. Before the contest, 6 teams leave. How many teams play in the contest?

WORK SPACE

ANSWER _____

- 2** A bracelet maker has 4 packets of 29 beads and buys 17 more beads. She uses 8 beads for each bracelet. How many full bracelets can she make, and how many beads will be left over?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A school orders 9 boxes of 36 notebooks. Students use 58 notebooks. The rest are shared equally among 8 classrooms. How many notebooks does each classroom get, and how many notebooks are left over?

WORK SPACE AND ANSWER

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	There are 9 packs of 6 pencils. Then 11 pencils are used. How many pencils are left?	43 pencils
2	A teacher puts 84 stickers equally onto 4 prize sheets. She adds 5 more stickers to each sheet. How many stickers are on each sheet?	26 stickers
3	A camp planned for 5 buses with 32 campers assigned to each bus. Then 20 campers are absent. How many campers are going?	140 campers
4	A snack stand has 73 juice boxes. It packs 8 juice boxes in each cooler. How many full coolers can it pack, and how many juice boxes are left?	9 full coolers and 1 juice box left
5	Ninety-six game cards are shared equally among 3 players. Each player gives 9 cards to a friend. How many cards does each player have now?	23 cards
6	A toy shop has 11 bins holding 9 balls each. It sells 14 balls. How many balls remain?	85 balls

PART 2 • APPLY IT

1. **26 teams** $128 \div 4 = 32$ teams at first. Then $32 - 6 = 26$ teams.
2. **16 full bracelets and 5 beads left over** $4 \times 29 + 17 = 133$ beads. Then $133 \div 8 = 16$ remainder 5.

CHALLENGE

33 notebooks for each classroom and 2 notebooks left over

Accept equivalent wording for remainders, such as "1 left" or "remainder 1." Students should show multiplication or division before adding or subtracting in each multistep problem.