

Precision Patrol

Solve carefully, label clearly, and check your work.

GRADE 4 • 4.MP.6

4.MP.6 "Attend to precision."

NAME _____

DATE _____

BE EXACT

Precision means using the right operation, writing numbers and units clearly, and checking that your answer makes sense. First decide what the question asks, then solve. Check by using the opposite operation or by comparing your answer to the situation.

WORKED EXAMPLE

A museum places 63 postcards equally into 7 display folders. How many postcards go in each folder?

1. Name the unit: postcards per folder.
2. Write $63 \div 7 = \underline{\quad}$.
3. Divide: $63 \div 7 = 9$.
4. Check: $7 \times 9 = 63$.

Answer: 9 postcards per folder

PRACTICE 6 problems

- 1** An art club puts 8 beads in each of 4 prize bags. Write an equation, solve, and check your answer. How many beads are in the bags altogether?

ANSWER _____

- 2** A runner completes 5 laps that are 12 meters each. Write an equation, solve, and check your answer. How many meters does the runner travel?

ANSWER _____

- 3** Noah has \$20. He buys 3 notebooks that cost \$4 each. Write an equation, solve, and check your answer. How much change does Noah get?

ANSWER _____

- 4** A smoothie recipe uses 2 cups of fruit for each batch. The cafe makes 6 batches. Write an equation, solve, and check your answer. How many cups of fruit are needed?

ANSWER _____

- 5** A card club shares 84 cards equally among 6 players. Write an equation, solve, and check your answer. How many cards does each player get?

ANSWER _____

- 6** A movie starts at 2:35 and lasts 45 minutes. Solve carefully and check by adding the minutes in parts. What time does the movie end?

ANSWER _____

APPLY IT Show your work

- 1** At an esports club, 6 teams each earn 18 points for completing a challenge. Plan by writing an equation. Find the exact total number of points, label the answer, and check with division.

WORK SPACE

ANSWER _____

- 2** An animal shelter receives 3 boxes with 24 cans of pet food in each box. It also receives 16 single cans. Write an equation for each part, find the total, and check that both groups of cans were counted.

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

The robotics team has 5 trays with 14 screws in each tray. Jalen writes $5 + 14 = 19$ screws. Explain Jalen's error, write the correct equation, and give the precise total with a unit.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	An art club puts 8 beads in each of 4 prize bags. Write an equation, solve, and check your answer. How many beads are in the bags altogether?	$8 \times 4 = 32$ beads; check: $32 \div 4 = 8$.
2	A runner completes 5 laps that are 12 meters each. Write an equation, solve, and check your answer. How many meters does the runner travel?	$5 \times 12 = 60$ meters; check: $60 \div 5 = 12$.
3	Noah has \$20. He buys 3 notebooks that cost \$4 each. Write an equation, solve, and check your answer. How much change does Noah get?	$3 \times \$4 = \12 ; $\$20 - \$12 = \$8$ change; check: $\$12 + \$8 = \$20$.
4	A smoothie recipe uses 2 cups of fruit for each batch. The cafe makes 6 batches. Write an equation, solve, and check your answer. How many cups of fruit are needed?	$2 \times 6 = 12$ cups; check: $12 \div 6 = 2$.
5	A card club shares 84 cards equally among 6 players. Write an equation, solve, and check your answer. How many cards does each player get?	$84 \div 6 = 14$ cards per player; check: $6 \times 14 = 84$.
6	A movie starts at 2:35 and lasts 45 minutes. Solve carefully and check by adding the minutes in parts. What time does the movie end?	3:20; check: 25 minutes after 2:35 is 3:00, then 20 more minutes is 3:20.

PART 2 • APPLY IT

- 108 points** Multiply $6 \times 18 = 108$. Check: $108 \div 6 = 18$ points for each team.
- 88 cans** Multiply $3 \times 24 = 72$ cans, then add 16 cans: $72 + 16 = 88$. The total includes the boxed cans and the single cans.

CHALLENGE

Jalen added instead of multiplying equal groups. $5 \times 14 = 70$ screws.

Accept equivalent equations and correct checks that use an inverse operation or a matching total. Require a clear unit in each final answer, including dollars, meters, cups, cards, points, cans, and screws.