

Precision Counts

Solve, label, and check each answer clearly.

GRADES K-12 • Practice.MP6

CCSS.Math.Practice.MP6 "Attend to precision. Mathematically proficient students try to communicate precisely to others. They try to use clear definitions in discussion with others and in their own reasoning. They state the meaning of the symbols they choose..."

NAME _____

DATE _____

MAKE MATH CLEAR

Show what each number means by writing units such as dollars, miles, or cups. Use the equal sign only when both sides have the same value. Check that your answer fits the situation before you finish.

WORKED EXAMPLE

The school store buys 9 notebooks that cost \$1.35 each. What is the total cost?

1. Write the rate: \$1.35 per notebook.
2. Multiply: $\$1.35 \text{ per notebook} \times 9 \text{ notebooks} = \12.15 .
3. The notebook units cancel, so the answer is in dollars.

Answer: \$12.15

PRACTICE 6 problems

- 1** Maya pours 3.6 liters of juice equally into 4 bottles. How many liters of juice are in each bottle?

ANSWER _____

- 2** A baker uses $2 \frac{1}{4}$ cups of flour to make 3 equal batches of muffins. How many cups of flour are in each batch? Write the fraction in simplest form.

ANSWER _____

- 3** A drama club sells 8 tickets at \$6 each. Write a unit-labeled equation and the total amount collected.

ANSWER _____

- 4** A city bus travels 12.5 miles each day for 6 days. What distance does it travel in all?

ANSWER _____

- 5** At 8:15, a student adds 35 minutes and writes $8:15 + 35 \text{ minutes} = 8:50$. Is the equal sign used correctly? Explain.

ANSWER _____

- 6** Priya has \$20. She buys items that cost \$4.75, \$6.25, and \$8.50. Find the total cost and her change.

ANSWER _____

APPLY IT Show your work

- 1** A game update needs 2.75 GB of storage. Two add-on packs each need 0.85 GB. Your device has 5 GB of free storage. Can you download everything? How much storage will remain?

WORK SPACE

ANSWER _____

- 2** Leo records the number of laps he runs after school. The track is 0.4 kilometer per lap. Find his total distance and his average distance per day.

LEO'S LAPS

Day	Laps
Monday	3
Tuesday	5
Wednesday	4
Thursday	6

ANSWER _____

CHALLENGE One step up

A student says that 6 episodes will use 7.25 GB of storage because $1.25 + 6 = 7.25$. Each episode actually uses 1.25 GB. Is the claim correct? Explain and write the correct storage amount with units.

WORK SPACE AND ANSWER

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Maya pours 3.6 liters of juice equally into 4 bottles. How many liters of juice are in each bottle?	0.9 liters
2	A baker uses $2\frac{1}{4}$ cups of flour to make 3 equal batches of muffins. How many cups of flour are in each batch? Write the fraction in simplest form.	$\frac{3}{4}$ cup
3	A drama club sells 8 tickets at \$6 each. Write a unit-labeled equation and the total amount collected.	8 tickets $\times$ \$6/ticket = \$48
4	A city bus travels 12.5 miles each day for 6 days. What distance does it travel in all?	75 miles
5	At 8:15, a student adds 35 minutes and writes $8:15 + 35 \text{ minutes} = 8:50$. Is the equal sign used correctly? Explain.	Yes. Both sides name the same time, 8:50.
6	Priya has \$20. She buys items that cost \$4.75, \$6.25, and \$8.50. Find the total cost and her change.	Total cost: \$19.50; change: \$0.50

PART 2 • APPLY IT

- Yes. 0.55 GB will remain.** The two add-on packs use 1.70 GB. The total needed is 4.45 GB, and $5.00 \text{ GB} - 4.45 \text{ GB} = 0.55 \text{ GB}$.
- Total distance: 7.2 km; average distance: 1.8 km per day.** Leo runs 18 laps altogether. Multiply 18 laps by 0.4 km per lap, then divide the 7.2 km total by 4 days.

CHALLENGE

The claim is incorrect because 1.25 GB is for each episode, so it must be multiplied by 6. $1.25 \text{ GB per episode} \times 6 \text{ episodes} = 7.50 \text{ GB}$.

Accept equivalent unit-labeled equations, such as $\$6/\text{ticket} \times 8 \text{ tickets} = \48 . Require units in all measurement, distance, storage, and money answers.