

Tool Choice Quest

Choose a tool, solve the situation, and check whether your answer makes sense.

GRADE 6 • 6.MP.5

6.MP.5 "Use appropriate tools strategically."

NAME _____

DATE _____

PICK THE RIGHT TOOL

Before you calculate, decide what you need to find and what information is connected. Choose a tool that makes the relationship clear, such as an equation, a table, a number line, a sketch, or an estimate. Check that your answer is reasonable for the situation.

WORKED EXAMPLE

The art club has 32 photo cards. It puts 8 cards in each display sleeve. How many sleeves does the club need?

1. Equal groups are being made, so use division.
2. Write $32 \div 8 = ?$.
3. Use $8 \times 4 = 32$, so $32 \div 8 = 4$.

Answer: 4 sleeves

PRACTICE 6 problems

- 1** A smoothie recipe uses $\frac{3}{5}$ cup of yogurt for one smoothie. Jada makes 6 smoothies. Name a useful tool, then find how much yogurt she needs.

ANSWER _____

- 2** A reading app gives Leo 84 pages to read in 12 days. He reads the same number of pages each day. Name a useful tool, then find his daily reading goal.

ANSWER _____

- 3** In an online game, Nia starts with 65 coins. She spends 29 coins on an item and then earns 17 coins in a quest. Name a useful tool, then find how many coins she has now.

ANSWER _____

- 4** A bracelet maker arranges beads in 13 rows with 9 beads in each row. Name a useful tool, then find the total number of beads.

ANSWER _____

- 5** On a trail map, 1 centimeter represents 11 kilometers. A route measures 2.5 centimeters on the map. Name a useful tool, then find the actual route length.

ANSWER _____

- 6** At the school snack stand, a granola bar costs \$2.25. Amir buys 3 granola bars. Name a useful tool, then find the total cost.

ANSWER _____

APPLY IT Show your work

- 1** A gaming club has 156 competitors. Each team will have 12 competitors, and each team needs 3 score sheets. Choose and name a useful tool. How many score sheets does the club need?

WORK SPACE

ANSWER _____

- 2** The school store buys 15 hoodies for \$12 each. It sells every hoodie for \$17 each. Choose and name a useful tool. What is the store's profit?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

The student council needs at least 50 juice boxes for a game night. Deal A has 18 juice boxes for \$15. Deal B has 25 juice boxes for \$20. Only whole packs can be bought. Make a table to compare the deals, then explain which deal costs less for at least 50 juice boxes.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	A smoothie recipe uses $\frac{3}{5}$ cup of yogurt for one smoothie. Jada makes 6 smoothies. Name a useful tool, then find how much yogurt she needs.	3 $\frac{3}{5}$ cups
2	A reading app gives Leo 84 pages to read in 12 days. He reads the same number of pages each day. Name a useful tool, then find his daily reading goal.	7 pages per day
3	In an online game, Nia starts with 65 coins. She spends 29 coins on an item and then earns 17 coins in a quest. Name a useful tool, then find how many coins she has now.	53 coins
4	A bracelet maker arranges beads in 13 rows with 9 beads in each row. Name a useful tool, then find the total number of beads.	117 beads
5	On a trail map, 1 centimeter represents 11 kilometers. A route measures 2.5 centimeters on the map. Name a useful tool, then find the actual route length.	27.5 kilometers
6	At the school snack stand, a granola bar costs \$2.25. Amir buys 3 granola bars. Name a useful tool, then find the total cost.	\$6.75

PART 2 • APPLY IT

- 39 score sheets** First find the number of teams: $156 \div 12 = 13$. Then multiply $13 \times 3 = 39$ score sheets.
- \$75** The store spends $15 \times \$12 = \180 and earns $15 \times \$17 = \255 . Subtracting gives $\$255 - \$180 = \$75$ profit.

CHALLENGE

Deal B costs less. Deal A needs 3 packs for 54 juice boxes and costs \$45. Deal B needs 2 packs for 50 juice boxes and costs \$40.

Accept any sensible named tool that matches the situation, including an equation, table, number line, sketch, repeated addition, or estimate. Accept equivalent fraction forms for the yogurt answer, such as $\frac{18}{5}$ cups.