LESSON MAKER PRO

Tool Choice Quest

Choose a math tool that fits the job.

GRADE 4 · 4.MP.5

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

NAME _____ DATE _____

CHOOSE A USEFUL TOOL

A tool can be an equation, an estimate, a table, or a number line. Before you solve, think about which tool will help you organize the information, then check whether your answer makes sense.

WORKED EXAMPLE

A game club buys 7 packs of cards. Each pack has 36 cards. How many cards does the club buy?

1. Choose multiplication because there are equal groups.
2. Write $7 \times 36 = 7 \times 30 + 7 \times 6$.
3. Multiply and add: $210 + 42 = 252$.

Answer: 252 cards

PRACTICE 6 problems

1 A snack stand has 64 pretzels. It puts 8 pretzels in each bag. Choose an operation that fits, then find the number of bags.

ANSWER _____

2 Maya had 125 beads and used 48 beads for a bracelet. Find how many beads she has left. Use the inverse operation to check your answer.

ANSWER _____

3 A coach has 5 bags of wristbands. Each bag holds 24 wristbands. Choose a useful tool, then find the total number of wristbands.

ANSWER _____

4 Tomas has $50. He buys 3 notebooks that cost $14 each. Estimate first, then calculate exactly how much money he has left.

ANSWER _____

5 A smoothie recipe uses 3/4 cup of berries for one batch. A family makes 4 batches. Choose a way to find the total amount of berries. Explain why it works.

ANSWER _____

6 A theater has 248 tickets. It sells 96 tickets. Estimate to check your thinking, then find how many tickets are left. Name the operation you used.

ANSWER _____

APPLY IT Show your work

1 An after-school game club member needs 500 points to unlock a virtual badge. Use the table to find how many more points the member needs after three rounds.

GAME CLUB SCORES

Round	Points
Round 1	127
Round 2	148
Round 3	109

ANSWER _____

2 Four buses each normally carry 26 students on a field trip. On the trip day, 3 students from each bus are absent. Each snack box holds 8 snacks, and each student needs one snack. Choose a useful tool or write an equation to find how many snack boxes are needed.

WORK SPACE

ANSWER _____

CHALLENGE One step up

A robotics club needs 46 batteries. Store A sells batteries in packs of 11 for $9 per pack. Store B sells batteries in packs of 12 for $11 per pack. Make a table or write equations to decide which store costs less while providing enough batteries. Explain your reasoning.

WORK SPACE AND ANSWER

ANSWER KEY

Tool Choice Quest

GRADE 4 · 4.MP.5

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	A snack stand has 64 pretzels. It puts 8 pretzels in each bag. Choose an operation that fits, then find the number of bags.	**Division, 8 bags.**
2	Maya had 125 beads and used 48 beads for a bracelet. Find how many beads she has left. Use the inverse operation to check your answer.	**77 beads; check: 48 + 77 = 125.**
3	A coach has 5 bags of wristbands. Each bag holds 24 wristbands. Choose a useful tool, then find the total number of wristbands.	**A multiplication equation, 120 wristbands.**
4	Tomas has $50. He buys 3 notebooks that cost $14 each. Estimate first, then calculate exactly how much money he has left.	**Estimate: about $5 left. Exact answer: $8 left.**
5	A smoothie recipe uses 3/4 cup of berries for one batch. A family makes 4 batches. Choose a way to find the total amount of berries. Explain why it works.	**3 cups; repeated addition or multiplication works because there are 4 equal groups of 3/4 cup.**
6	A theater has 248 tickets. It sells 96 tickets. Estimate to check your thinking, then find how many tickets are left. Name the operation you used.	**Subtraction, 152 tickets; a reasonable estimate is about 150 tickets.**

PART 2 · APPLY IT

1. **116 more points.** Add the points: 127 + 148 + 109 = 384. Then subtract: 500 - 384 = 116.
2. **12 snack boxes.** Find the students attending: 4 × (26 - 3) = 92. Since 92 ÷ 8 = 11 remainder 4, the group needs 12 boxes.

CHALLENGE

A table works because it keeps each store's pack count and cost together. Store A needs 5 packs, which is 55 batteries and costs $45. Store B needs 4 packs, which is 48 batteries and costs $44. Store B costs $1 less.

Accept equivalent tools and correct equations. For estimates, accept reasonable rounding that supports checking the exact answer.