

Tool Choice Time

Pick a math tool, solve, and check.

GRADE 3 • 3.MP.5

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

NAME _____

DATE _____

CHOOSE A TOOL

First, think about what the story asks. Choose a tool that fits, such as a number line, a table, equal groups, or a number sentence. Check by estimating or using the opposite operation.

WORKED EXAMPLE

An art club puts 8 crayons in each of 6 boxes. How many crayons are there?

1. Choose multiplication for equal groups.
2. Write $8 \times 6 = 48$.
3. Check: $48 \div 6 = 8$.

Answer: 48 crayons

PRACTICE 5 problems

- 1** Ava puts 4 shells in each of 3 jars. Choose a useful tool, solve, and check. How many shells?

ANSWER _____

- 2** A pet shop has 27 fish. It puts 9 fish in each tank. Choose a useful tool, solve, and check. How many tanks?

ANSWER _____

- 3** Noah has 35 cents. He earns 20 more cents. Choose a useful tool, solve, and check. How many cents does he have?

ANSWER _____

- 4** A game costs 70 tickets. Lee has 32 tickets. Choose a useful tool, solve, and check. How many more tickets does Lee need?

ANSWER _____

- 5** Five friends share 45 grapes equally. Choose a useful tool, solve, and check. How many grapes does each friend get?

ANSWER _____

APPLY IT Show your work

- 1** The school garden has 7 rows of carrots. Each row has 12 carrots. Choose a tool, solve, and check with an estimate or the opposite operation. How many carrots are there?

WORK SPACE

ANSWER _____

- 2** At the arcade, 96 prize tickets are put into 4 equal piles. Choose a tool, solve, and check. How many tickets are in each pile?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A reading team earns 5 points for each of 9 books. Then the team spends 17 points on a prize. Choose tools for both steps. How many points are left? Explain how you checked.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Ava puts 4 shells in each of 3 jars. Choose a useful tool, solve, and check. How many shells?	12 shells
2	A pet shop has 27 fish. It puts 9 fish in each tank. Choose a useful tool, solve, and check. How many tanks?	3 tanks
3	Noah has 35 cents. He earns 20 more cents. Choose a useful tool, solve, and check. How many cents does he have?	55 cents
4	A game costs 70 tickets. Lee has 32 tickets. Choose a useful tool, solve, and check. How many more tickets does Lee need?	38 tickets
5	Five friends share 45 grapes equally. Choose a useful tool, solve, and check. How many grapes does each friend get?	9 grapes

PART 2 • APPLY IT

1. **84 carrots** Use multiplication: $7 \times 12 = 84$. An estimate of $7 \times 10 = 70$ shows that 84 is reasonable.
2. **24 tickets** Use division: $96 \div 4 = 24$. Check with $24 \times 4 = 96$.

CHALLENGE

28 points are left. $5 \times 9 = 45$, and $45 - 17 = 28$. Check: $28 + 17 = 45$.

Accept any appropriate tool or representation that leads to the correct answer. Accept reasonable checks, including an estimate, repeated addition, or the opposite operation.