

Plan Solve Check

Students choose a strategy, solve dot problems, and explain and check their thinking.

1.1.B “use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness of the solution;”

NAME _____

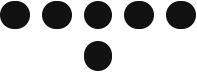
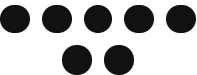
DATE _____

Teacher: this page is run aloud. The script and answers are on the guide page.

1 PICK A PLAN _____

a	add	subtract	compare
b	add	subtract	compare

2 SOLVE AND CHECK _____

HOW TO RUN THIS PAGE

Read the choices and each problem aloud, then give students time to mark their answers. Students show the problem-solving process by choosing a plan, finding a solution, telling why the plan fits, and checking whether the answer is reasonable.

Students never read directions on this sheet. Read each part's script aloud, then each prompt, giving think time before students mark.

PART 1 • PICK A PLAN

SAY “Listen to each problem. I will read the three plan words, then you will circle the plan that fits. After you circle, how can you tell me why that plan fits the problem?”

ROW	SAY	STUDENTS CIRCLE
a	There are 4 dots, and 3 more dots join them. Which plan fits: add, subtract, or compare?	add
b	There are 8 dots, and 2 dots leave. Which plan fits: add, subtract, or compare?	subtract

PART 2 • SOLVE AND CHECK

SAY “At the first box, look at the 3 dots. If 2 more dots join, what number tells how many dots there are now? At the second box, look at the 6 dots. If 1 dot leaves, what number tells how many dots are left? At the third box, look at the 7 dots. If 2 more dots join, what number tells how many dots there are now, and how can you check that each answer makes sense?”

- Box 1 (beside 3 dots): **5**
- Box 2 (beside 6 dots): **5**
- Box 3 (beside 7 dots): **9**

WHAT TO ACCEPT

Part 1 answers are add, then subtract. Part 2 answers are 5, 5, and 9. Accept oral explanations that connect joining with adding, leaving with subtracting, and checking by recounting or using the dots.