

Name:

Date:

Dan is helping Nana paint her bathroom. She asked him to mix the paint with a ratio of 1 red to 5 white. He got distracted when his phone dinged as his friend sent him a new Grumpy Cat meme. He ended up mixing the paint with a ratio of 5 red to 1 white. Nana does NOT like to waste money so Dan cannot throw the paint away and start over. Is it possible to fix the mix up? How?

Goal:

Givens:

Plan: What strategies will you use? You may check more than one box. Check the most effective strategy.

- | | | |
|---|---|--|
| <input type="checkbox"/> Draw and Label Diagram/Picture | <input type="checkbox"/> Look for patterns | <input type="checkbox"/> Write an equation |
| <input type="checkbox"/> Look for special cases | <input type="checkbox"/> Make a table | <input type="checkbox"/> Work backwards |
| <input type="checkbox"/> Create and solve a simpler problem | <input type="checkbox"/> Compare to a similar problem you have solved | <input type="checkbox"/> Other _____ |

Conjecture:
(reasonable guess)

Solution: show all work, label everything!

Solution Scoring Rubric

Level 1	Level 2	Level 3	Level 4
<ul style="list-style-type: none">incomplete solutionminimal attempt to explain thinking	<ul style="list-style-type: none">limited/incomplete solutiondifficult to followmissing labelsmajor assumptions	<ul style="list-style-type: none">some assumptions: contains mental mathmissing some labelscoherent and complete thoughtsvalid strategy to solve the problem	<ul style="list-style-type: none">no assumptionsclearly labeledcoherent and complete thoughtsvalid strategy to solve the problem

Answer: Written as a complete sentence with units!

Verification: Choose the best method then use it to verify your answer.

- ☐ Check mathematically ☐ Explain in 2 or more sentences why your answer makes sense (not explain what you did)
- ☐ Solve in a different way ☐ Other _____

Goal/Givens	Conjecture	Plan/Strategies	Solution	Verification	Correct Answer with Label	TOTAL
1 pt	1 pt	1 pts	4 pts	2 pts	1 pts	