

# Worksheet 17: Advanced Logic Puzzle - Operations Team

Use all clues and explain your elimination process.

## Puzzle

Five students - Ava, Ben, Cam, Dee, and Eli - each have one role: navigator, medic, radio operator, supply manager, and safety checker. Clues: Ben's role involves equipment inventory, not maps or medical care. Ava sends updates but does not carry the medical kit. Cam treats minor injuries and works directly with the safety checker. Dee is not the navigator, supply manager, or radio operator. Eli checked the route and compass before movement.

1. Which clue tells you the supply manager? Explain how you know.

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2. Which clue tells you the radio operator? Explain how you know.

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3. Why does Dee have to be the safety checker?

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4. Use the clues to assign every student a role. Show your reasoning, not just the final answer.

*Show your work / final answer:*

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5. Which clue would make the puzzle hardest if it were removed? Defend your choice.

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**Extra workspace / final response:**

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## Create Your Own Harder Puzzle

6. Write a four-person, four-role logic puzzle with at least five clues. Make sure it has only one solution.

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7. Solve your puzzle and explain how a student should start it.

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**Extra workspace / final response:**

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