

# Worksheet 09: Compass Bearings and Route Analysis

Use bearings, turns, route descriptions, and reasoning.

## Part A: Bearings and Movement

Reminder: 0/360 degrees = north, 90 = east, 180 = south, 270 = west.

1. A patrol faces 045 degrees, turns 135 degrees clockwise, then turns 90 degrees counterclockwise. What bearing are they facing?

*Show your work / final answer:*

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2. A team walks 6 km east and 8 km north. What is the straight-line distance back to the start? What direction would generally point back?

*Show your work / final answer:*

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3. A route says: move 2 miles at 090, 2 miles at 180, 2 miles at 270, and 2 miles at 000. What shape does the route make, and where do you end?

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4. A bearing of 225 degrees points between which two cardinal directions? Explain how you know.

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**Extra workspace / final response:**

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## Part B: Navigation Judgment

5. Create a route with at least five legs using bearings and distances. The route should end at the starting point. Show why it returns to the start.

*Show your work / final answer:*

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6. Compare a compass bearing to a simple direction like "go left." Which is more reliable in a field setting and why?

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7. Explain one mistake that could happen if someone confuses 090 and 270.

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**Extra workspace / final response:**

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