

Chapter 1 Problem Wrap-Up

Student Text Page

55

Suggested Timing

70 min

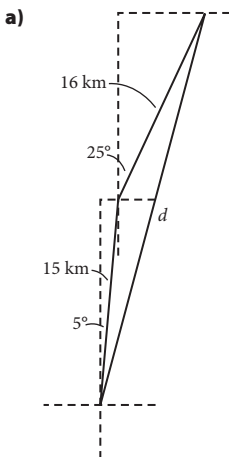
Related Resources

BLM 1-17 Chapter 1 Problem
Wrap-Up Rubric

Teaching Suggestions

- Discuss how the Chapter Problem questions can help them with the Chapter Problem.
- Review the steps involved in solving a problem using trigonometry.
- Give students time to discuss how to approach the Chapter Problem Wrap-Up in pairs or small groups. Students should prepare individual responses.

Level 3 Sample Response



- b) The team travelled a total of 16 km on the second day. They travelled about 1.3 km east and 14.9 km north on the first day and about 6.8 km east and 14.5 km north on the second day. Their total distance east was about 8.1 km and north was about 29.4 km. So, the rescue team should travel 30.5 km, on a course 15.4° east of north.

Level 3 Notes

Look for the following:

- appropriate explanations with minor errors
- understanding of trigonometric formulas and their applications
- understanding of problem-solving techniques
- organised solution and clear justification for responses
- effective use of mathematical language

What Distinguishes Level 2

Look for the following:

- some appropriate explanations with some significant errors
- some understanding of trigonometric formulas and their applications
- some understanding of problem-solving techniques, but difficulty in applying the techniques
- somewhat organised solution and some justification for responses
- somewhat effective use of mathematical language

What Distinguishes Level 4

Look for the following:

- appropriate and detailed explanations with very few or no errors
- thorough understanding of trigonometric formulas and their applications
- highly effective use of problem-solving techniques
- highly organised solution and clear, accurate, and detailed justification for responses
- highly effective use of mathematical language

Summative Assessment

- Use **BLM 1-17 Chapter 1 Problem Rubric** to assess student achievement.