

Problem-Based Task: Field of Dreams**Coaching**

- a. What does the map of the field look like?
- b. Which sides of the baseball field are opposites?
- c. What is the slope of the line connecting first base and second base?
- d. What is the slope of the line connecting home plate and third base?
- e. What is the slope of the line connecting home plate and first base?
- f. What is the slope of the line connecting third base and second base?
- g. Are opposite sides parallel?
- h. Which sides of the baseball field are consecutive?
- i. How is the slope of the line connecting first and second base related to the line connecting first base and home plate?
- j. How is the slope of the line connecting second base and third base related to the line connecting third base and home?

continued

Name: _____

Date: _____

- k. How is the slope of the line connecting third base and home plate related to the line connecting home plate and first base?

- l. How is the slope of the line connecting first base and second base related to the line connecting second base and third base?

- m. What is the formula used for finding the distance between two points?

- n. What is the distance between first base and second base?

- o. What is the distance between second base and third base?

- p. What is the distance between third base and home plate?

- q. What is the distance between home plate and first base?

- r. Is the baseball diamond a square?

- s. What is the distance between second base and home plate?

- t. What is the distance between third base and first base?

- u. What do you notice about these two distances?