

Algebra Essentials and Applications Internet Activity

ME1 Hospital Investigations

1. According to HealthNet’s site, when and where were helicopters first used by a civilian hospital?

If a helicopter responds to an emergency away from its home base, determining which hospital is the closest could be a life-or-death decision.

2. Print the map from the second site onto grid paper. Draw the x -axis near the southern edge of the map and the y -axis near the western side of the map. Find the coordinates of the following locations:

- a. Wayne Memorial Hospital
- b. Sampson Regional Medical Center
- c. Duplin General Hospital
- d. The point where three counties meet between the hospitals in parts a through c.

3. Suppose that a severe accident occurs at the coordinates you found in part d above. Use the distance formula to find the air distance from the accident to each of the three nearby hospitals.

4. If a helicopter responds to the accident at this site and distance is the only concern, to which hospital should the pilot take the victims?
