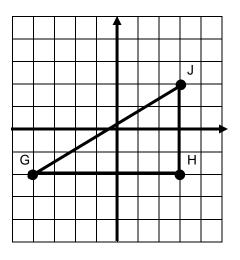
Algebra I EOC Practice #23

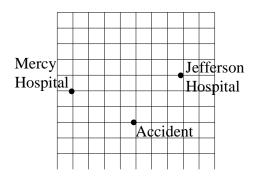
SPI 3102.4.3: Solve problems involving the distance between points or midpoint of a segment.

- 1. What is the length of a segment whose endpoints are (5, -8) and (9, 2)?
 - A. 116
 - B. $4\sqrt{29}$
 - C. $29\sqrt{2}$
 - D. $2\sqrt{29}$
- 2. What are the coordinates of the midpoint of a line segment with endpoints (8, 11) and (-12, 5)?
 - A. (10, 8)
 - B. (-2, 8)
 - C. (-4, 16)
 - D. (-2, 16)
- 3. Which value is closest to the perimeter of \triangle GHJ, in units?

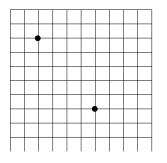


- A. 8
- B. 15
- C. 19
- D. 23

4. An EMS helicopter is stationed at Mercy Hospital, which is 4 miles west and 2 miles north of an automobile accident. Another EMS helicopter is stationed at Jefferson Hospital, which is 3 miles east and 3 miles north of the accident. Which statement below is correct?



- A. Mercy Hospital is 0.23 miles closer to the accident.
- B. Mercy Hospital is 8.71 miles closer to the accident.
- C. Jefferson Hospital is 0.23 miles closer to the accident.
- D. Jefferson Hospital is 8.71 miles closer to the accident.
- 5. What is the distance between the two points on the graph below?



- A. 3.6 units
- B. 6.4 units
- C. 7.1 units
- D. 5.5 units