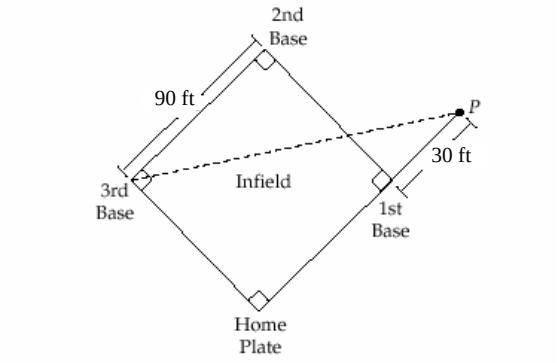
HSA Practice 1

1. A diagram of a baseball field is shown below. The infield is a square that measures 90 feet on each side. (*HSA 2001 Public Release Question*)



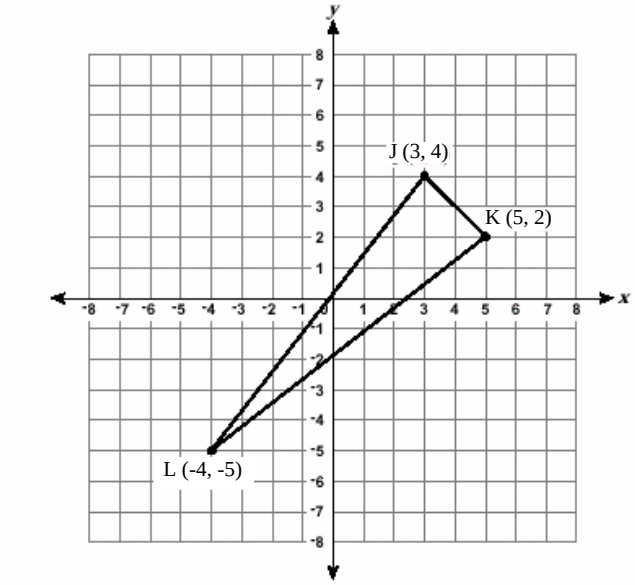
Note: The figure is not drawn to scale.

A player threw a ball from point *P* to third base. How far did the player throw the ball? Round the answer to the nearest foot.

A 79 feet B 127 feet

C 150 feet D 210 feet

2. Triangle *JKL* is shown on the grid below. (*HSA 2000 Public Release Question*)



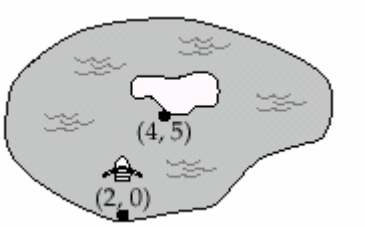
What is the length of $\overline{KL}$? Round the answer to the nearest tenth of a unit.

F 3.2 units G 4.0 units

H 11.4 units J 11.7 units

HSA Practice 1 (Continued)

3. A lake is shown below. An island is located at (4, 5). A boat travels in a straight line from (2, 0) to the island. (*HSA 2001 Public Release Question*)



How far does the boat travel? Round the answer to the nearest tenth of a unit.

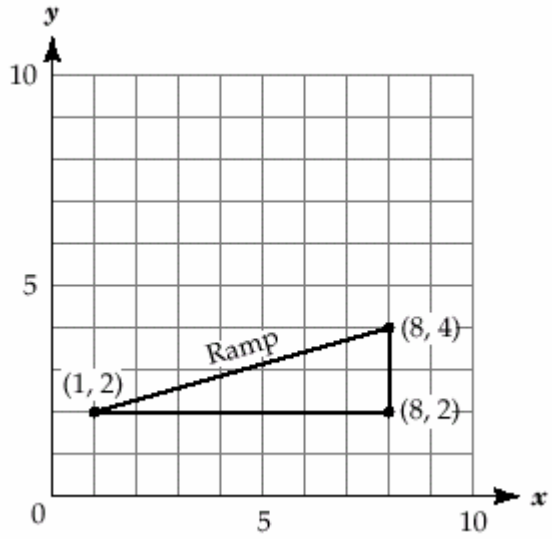
A 3.3 units

B 3.7 units

C 5.4 units

D 7.8 units

4. An architect is designing a ramp for delivery trucks. A drawing of the ramp is shown on the grid below. (*HSA 2001 Public Release Question*)



What is the slope of the ramp?

F $-\frac{7}{2}$ G $-\frac{2}{7}$

H $\frac{2}{7}$ J $\frac{7}{2}$

Answers: 1. C 2. H 3. C 4. H