

Triathlon Training

Shelly is training for a triathlon. In the triathlon she will ride her bike, run, and swim. Answer questions 1–2. Show your work, and write all fractions in simplest form.

1. Each week Shelly rides her bicycle 3 miles farther than the week before.

Training (weeks)	1	2	3	4	5	6
Riding (miles)	3	6	9	12	15	?

- a. Describe the rule that relates the number of weeks Shelly has been training to the number of miles she rides.

- b. If she continues training by the same rule, how many miles will Shelly ride during her 6th week of training?

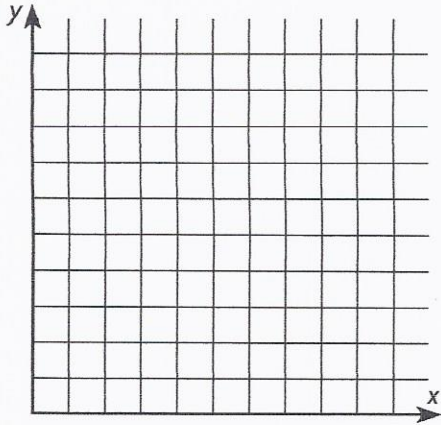
2. Shelly also trains to increase the number of minutes she can run without stopping. She plans to graph the data she has collected.

Training (weeks)	1	2	3	4	5	6
Non-Stop Running (minutes)	$3\frac{1}{2}$	7	$10\frac{1}{2}$	14	$17\frac{1}{2}$	21

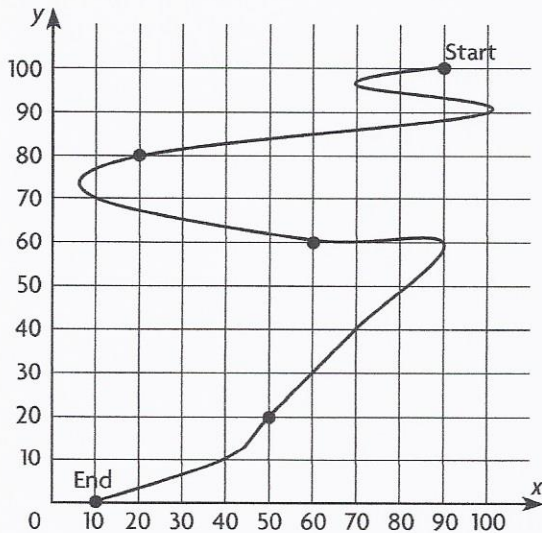
- a. List the ordered pairs Shelly should graph.

- b. Would a scale of 0–25 be appropriate for the graph's x -axis? Explain.

c. Graph Shelly's data on the coordinate grid below.



3. The graph below shows the course for Shelly's run. .



a. The three points on the coordinate grid show the location of the water stations. Write the ordered pairs for each of the three locations.

b. Along the course, there is a medical tent at (10, 70). Plot and label the location of the medical tent on the coordinate grid.