

Name: _____

Date: _____

HW # 14a: Algebra 1 - Standard 9 - Representing Relations

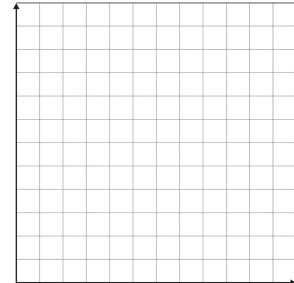
5 points

7. **HEALTH** The American Heart Association recommends that your target heart rate during exercise should be between 50% and 75% of your maximum heart rate. Use the data in the table below to graph the approximate maximum heart rates for people of given ages. Source: American Heart Association

Age (years)	20	25	30	35	40
Maximum Heart Rate (beats per minute)	200	195	190	185	180

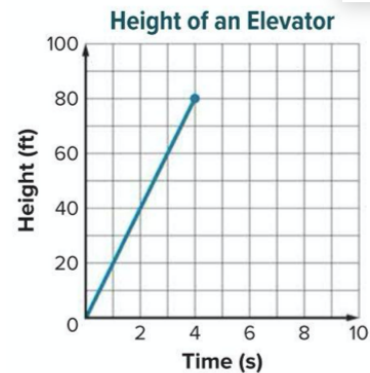
(Be sure to give all details for scales and show if you are including a "break" on the axes)

Show work needed to justify your answer.



9. **ELEVATOR** The height of an elevator above the ground is given in the table. Interpret the meaning of the axes, scale, and origin of the corresponding graph of the data.

Time (s)	Height (ft)
0	0
1	20
2	40
3	60
4	80



- a. The x axis represents: _____
- b. The y axis represents: _____
- c. x-axis scale: 1 mark = _____
- d. y-axis scale: 1 mark = _____
- e. The origin (0, 0) represents: _____
- _____