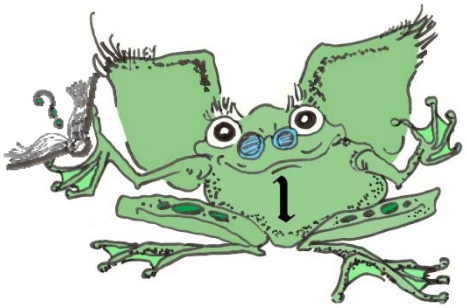
MiSP Human Growth and Development Assessment L1

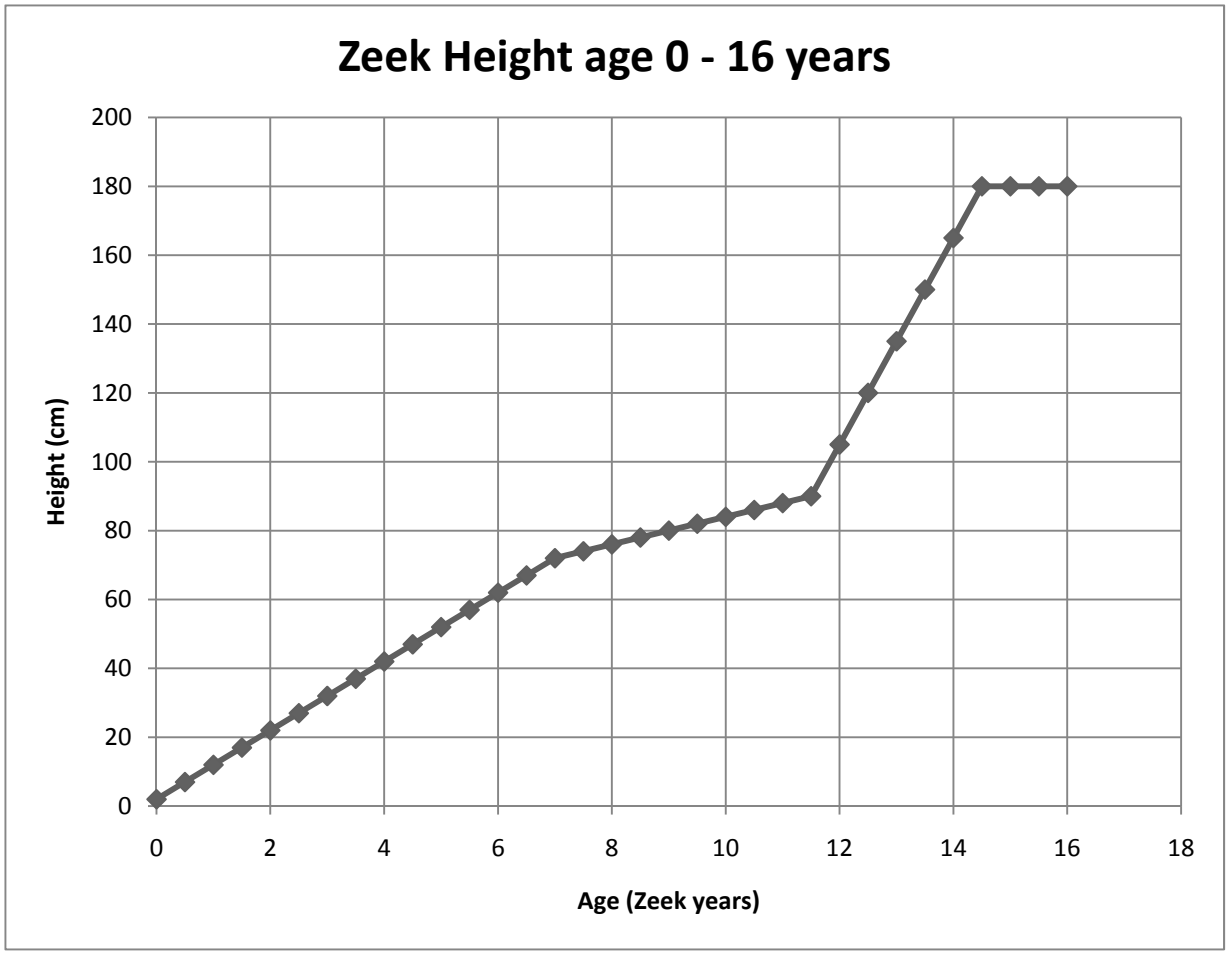
Name _____ Date _____

On the planet Zircus, the Zeeks are a bionic humanoid species with very predictable growth and development. All Zeeks come out of the reproduction factory with the same height: 2.0 cm. They proceed to grow, following the same predictable pattern, until they reach a height of 180 cm at age 14.5 Zircus years. They remain 180 cm for the rest of their adult life.

The stereotyped growth pattern is shown on the chart below and the graph on the next page.

Age (Zircus years)	Height (cm)	Age (Zircus years)	Height (cm)
0	2.0	8.0	76.0
.5	7.0	8.5	78.0
1.0	12.0	9.0	80.0
1.5	17.0	9.5	82.0
2.0	22.0	10.0	84.0
2.5	27.0	10.5	86.0
3.0	32.0	11.0	88.0
3.5	37.0	11.5	90.0
4.0	42.0	12.0	105.0
4.5	47.0	12.5	120.0
5.0	52.0	13.0	135.0
5.5	57.0	13.5	150.0
6.0	62.0	14.0	165.0
6.5	67.0	14.5	180.0
7.0	72.0	15.0	180.0
7.5	74.0	15.5	180.0
		16.0	180.0





1. The Zeeks grow from "birth" to age 14.5 years. The increase in size is not the same during the full 14.5 years. How many intervals with <u>different</u> growth rates (# cm / half year) occur in the Zeeks between 0 and 14.5 years? ____

2. During which age range is the rate of growth the greatest?_____

3. Use the graph to estimate the height (in cm) of a Zeek who is:

   a. age 12 ¼ (12.25) _____

   b. age 22.0 _____