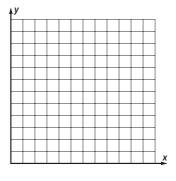**Name** _____

6-1A Lesson Master

USES Objective E

In 1–4, use the chart below, showing the weight of Anthony's golden retriever, Leo.

Age (weeks)	8	12	16	20	24
Weight (lb)	10	16	27	39	45

1. Make a line graph for Leo's weight on the grid at the right.

2. In which time period did Leo have a greater rate of growth, from week 16 to week 20 or from week 20 to week 24?

   _____

3. What was the rate of change of Leo's weight from 8 weeks to 12 weeks?   _____

4. Was the rate of change ever negative? Explain.

   _____

In 5–7, use the table below. It shows the number of bushels of corn, in thousands, produced by three states: Illinois, Iowa, and Kansas.

Number of Bushels (in thousands)			
State	2002	2003	2004
Iowa	1,931,550	1,868,300	2,244,400
Illinois	1,471,500	1,812,200	2,088,000
Kansas	301,600	300,000	432,000

5. Find the rate of change in corn production for Iowa from 2002 to 2004.   _____

6. Which state had the greatest rate of change in production from 2002 to 2004?   _____

7. Which states had a negative rate of change in production from 2002 to 2003?   _____