

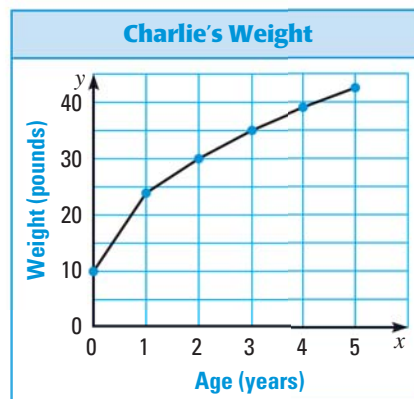
# Line Graphs TEKS 8.12.C

You can use a **line graph** to show how numerical data change over time.

## EXAMPLE

Use the line graph, which shows Charlie's weight from birth to 5 years old. (a) How much weight did Charlie gain in 5 years? (b) At what age did Charlie weigh 30 pounds? (c) In which year did Charlie gain the most weight?

- The lowest point on the graph shows that Charlie weighed 10 pounds at birth. The highest point on the graph shows he weighed 42.5 pounds at age 5.  
 $42.5 - 10 = 32.5$   
 ▶ Charlie gained 32.5 pounds in 5 years.
- The point on the graph to the right of 30 on the weight axis corresponds to an age of 2.  
 ▶ Charlie weighed 30 pounds at age 2.
- The graph is steepest from birth to age 1.  
 ▶ Charlie gained the most weight in his first year.



## PRACTICE

In Exercises 1–5, use the line graph above.

- How much did Charlie weigh on his first birthday?
- How old was Charlie when he weighed 40 pounds?
- In which year did Charlie gain the least weight?
- How much weight did Charlie gain his first year?
- How much weight did Charlie gain from age 1 to age 4?

In Exercises 6–14, use the line graph, which shows Abby's height from birth to 4 years old.

- How tall was Abby when she was born?
- How old was Abby when she was 35 inches tall?
- In which year did Abby grow the most?
- In which year did Abby grow the least?
- How many inches did Abby grow from age 3 to age 4?
- In which year did Abby grow 5 inches?
- How many inches did Abby grow in 4 years?
- At what age was Abby's height double her height at birth?
- If Abby maintains the same growth rate from age 4 to age 5 that she had from age 3 to age 4, how tall will she be when she is 5?

