

## Chapter 4 Test

For #1 to #5, select the best answer.

- Which type of graph best shows percent comparisons over several categories?  
**A** bar graph    **B** circle graph  
**C** histogram    **D** line graph
- Which type of graph would be best to show the growth of a pea plant over time?  
**A** bar graph    **B** circle graph  
**C** histogram    **D** line graph

Use the following data to answer #3 and #4.

The average height of the Hawks high school basketball team is 6 feet 4 inches. The average height of the Gulls team is 6 feet 3 inches.

- Which bar graph would best misrepresent the data to favour the Hawks?  
**A** The width of the bar is wider for the Hawks team than the Gulls.  
**B** The vertical axis starts at 0 and ends at the Hawks average height.  
**C** The width of the bars are the same for the Hawks and the Gulls.  
**D** The vertical axis starts at 6 foot 3 inches and increases by  $\frac{1}{4}$  increments.

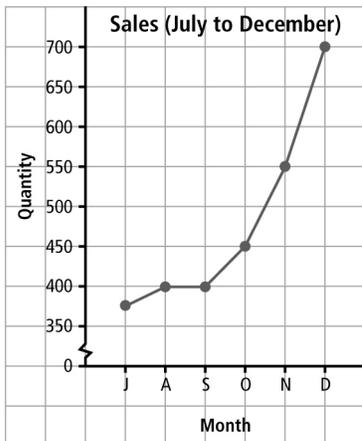
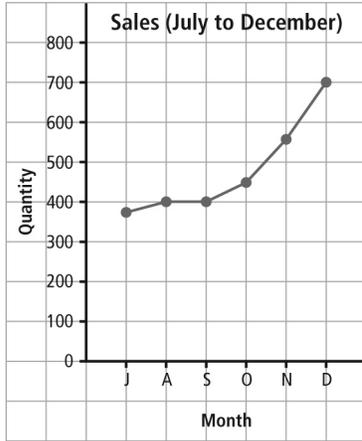
- Which bar graph represents the data accurately?  
**A** The width of each horizontal bar is proportional to the team's average height.  
**B** The average height is on the horizontal axis.  
**C** The vertical scale begins at 0 and increases by 6-inch increments.  
**D** The bars for both teams are the same colour.
- A high school student population was surveyed to determine the new school colour. Students were given a choice of five colours. Which type of graph would best represent the data?  
**A** bar graph    **B** circle graph  
**C** histogram    **D** line graph
- The table shows the numbers of people who accessed web sites for two stores today.

Store A	Store B
1007	998

- Which type of graph would be most appropriate to compare the consumers viewing of web sites? Create the graph.
- State an observation you can make from the graph.
- Create a graph to make the number of people accessing Store A's site seem much larger than the number of people accessing Store B's site. Explain how your graph is misleading.



7. These two graphs represent the same data in different ways.



- a) How are the graphs similar?  
How are they different?
- b) Are the graphs misleading?  
Explain.
- c) Describe a scenario in which a sales manager could use graph B to promote his store.

