

Chapter 1 Test

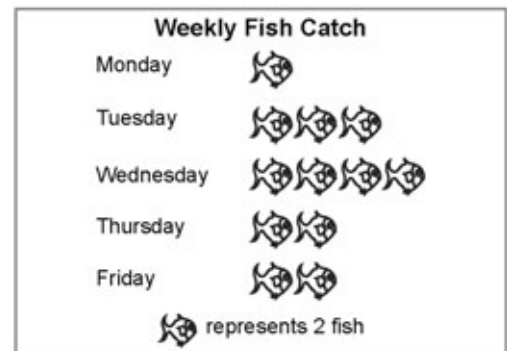
For #1 to #5, choose the best answer.

1. Which type of graph is best for showing changes in data over time?

A bar graph **B** circle graph **C** line graph **D** pictograph

2. What type of graph is this?

A bar graph
B circle graph
C line graph
D pictograph

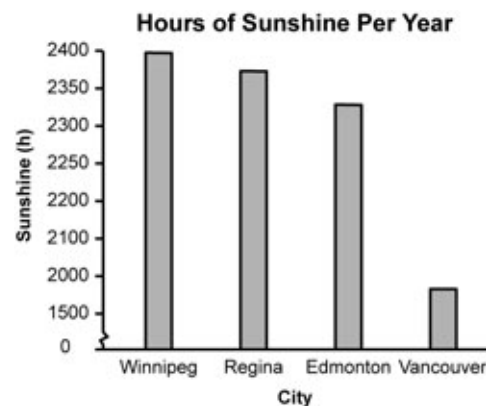


3. Which type of graph uses percents to compare categories to the whole?

A bar graph **B** circle graph **C** line graph **D** pictograph

4. Bill represented the data about hours of sunshine in several cities using a bar graph. How is this graph misleading?

City	Sunshine (h)
Winnipeg	2379
Regina	2367
Edmonton	2305
Vancouver	1920



- A** The bars on the graph are not wide enough.
B The horizontal scale is not labelled properly.
C The intervals on the vertical scale are not equal.
D The scale starts at 0.

Name: _____

Date: _____

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(continued)

5. Which type of graph is best used to compare this data across categories?

A bar graph
B circle graph
C line graph
D pictograph

Wake-Up Time	Grade 8 Students
6:30 a.m.	12
7:00 a.m.	34
7:30 a.m.	28
8:00 a.m.	16

Short Answer

6. **a)** Redraw the bar graph in #4 to display the data accurately.
b) State two conclusions you can make based on the graph.
c) State an advantage of representing the data on a bar graph.

7. Todd recorded the results of a survey of grade 8 students about what kind of movies they like best.

- a)** Display the data using a circle graph.
b) Display the data using a bar graph.
c) Which graph best shows the most popular type of movie? Explain.
d) Which graph best shows that comedy is twice as popular as drama? Explain.

Movie Category	Votes
Comedy	36
Drama	18
Action	26
Romance	20

Extended Response

8. Two teams are competing for a trophy based on the most wins over four seasons.
- a)** Create a graph to display their records over the past four seasons.
b) Use the same data to create a graph that is misleading. Explain how it is misleading.

Team	Games Won			
	Season 1	Season 2	Season 3	Season 4
Thunder Hawks	38	32	43	29
Range Riders	35	37	28	41