ML8 Chapter 1 Warm-Up Answers

BLM 1–4 Chapter 1 Warm-Up

Section 1.1
1. circle graph
2. 20%
3. Answers will vary. Example: 25% of students prefer hockey *or* hockey and soccer are the most popular sports.
4. bar graph
5. 24
6. one quarter
7. 180°
8. 30, 35, 40, 45, 50, 55, 60
9. 20, 40, 60, 80, 100, 120, 140, 160, 180, 200
**10.** 100, 125, 150, 175, 200, 225, 250, 275, 300

Section 1.2
1. the types of video games preferred by 200 students
2. Answers may vary. Example: appears to be the same information as the graph in #1
3. 34. Answers may vary. Examples:
• The circle graph is more precise because it involves a calculation, whereas you are estimating when using the bar graph.
• The bar graph shows this information more clearly using the height of the bar. You would have to calculate 17% of 200 to get this information from the circle graph.
4. A line graph would not be useful since the data do not show changes over time.
5. a pictograph
6. 25
7. 60

**8. a)** 7 **b)** 8.4 or $8\frac{2}{5}$

9. 90°
10. 270°

Section 1.3
1. Charlottetown: 5, Québec City: 7, Toronto: 4
2. Answers will vary. Example: It looks as though Québec City is more popular than the other two destinations put together. It looks like this because the graph does not start at zero so the bars are comparatively shorter than they otherwise would be.

3.
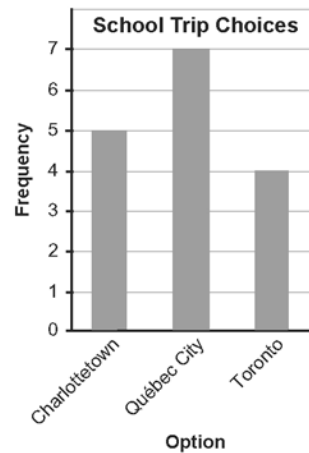
4. Answers will vary. Example: More students *do* prefer Québec City over each of Charlottetown and Toronto; however, the total number of students who prefer Charlottetown and Toronto is greater than those who prefer Québec City.
5. Answers will vary. Example: A pictograph could be used to clearly show how many students prefer each choice.
6. Answers may vary. Example: The visuals should be the same size and spaced evenly apart.
7. 0. Answers may vary. Example: If the vertical scale does not start at zero and is not continuous, the data may be distorted.
8. Look for either one of the following symbols.
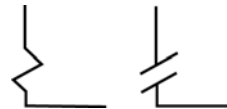
9. Answers will vary. Example: The chef should use each symbol to represent the same number of sales.
10. 180°