

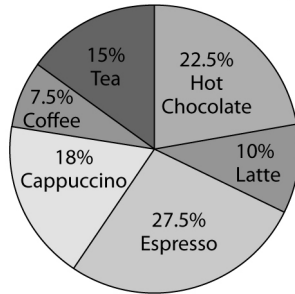
Chapter 4 BLM Answers

BLM 4-3 Chapter 4 Warm-Up

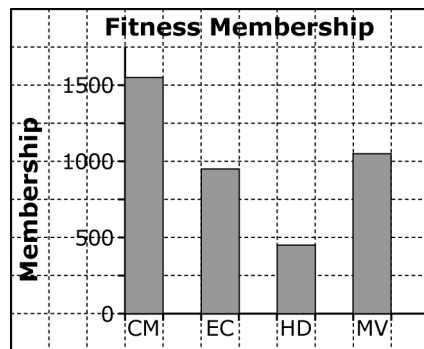
Section 4.1

- a) 80% b) 60% c) 70%
d) 72% e) 63%
- a) 0.75; 0.75 b) 40; 44 c) 190; 218.5
- 10%
- 22.5%

Favourite Hot Beverage

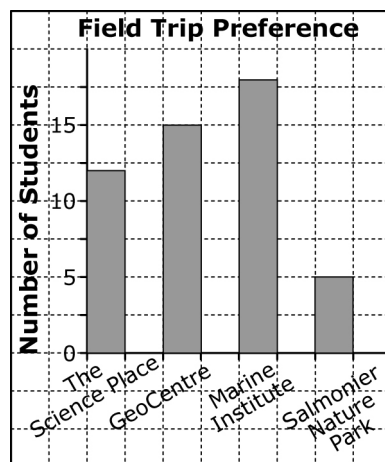


5.

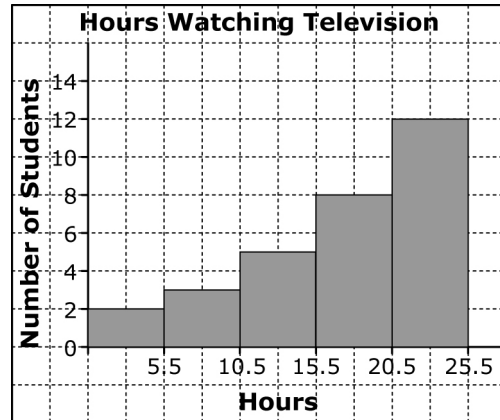


Section 4.2

- bar graph or circle graph
- line graph
- histogram
-

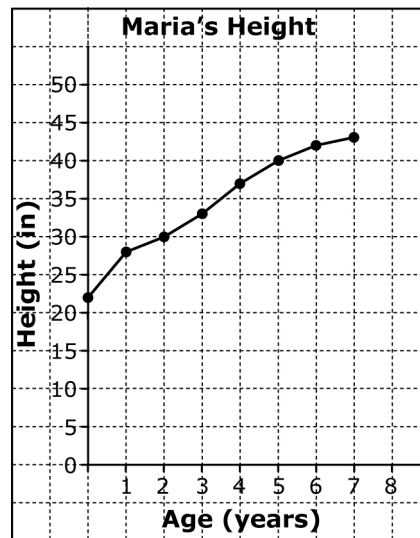


5.



Section 4.3

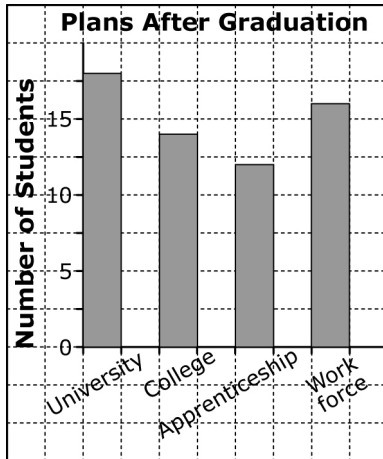
1.



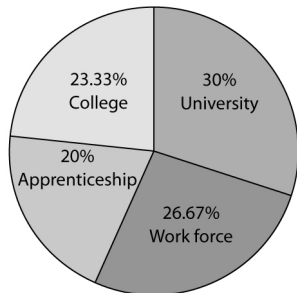
- about 35 inches
- about 45 inches
- Example: The number of tickets increases each week until it reaches a maximum of about 6000.
- Example: No. The Mile One Centre has a maximum seating capacity.



BLM 4-5 Section 4.1 Extra Practice
1. a)



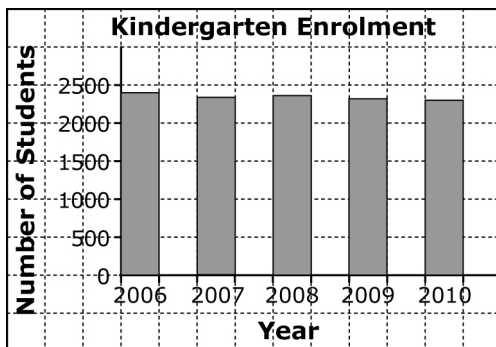
b)
Plans After Graduation



2. bar graph; time is continuous

3. a) bar graph

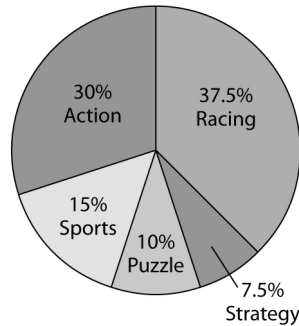
b)



4. a) circle graph

b)

On-Line Gaming



c) Example: No. The graph does not show how many students were surveyed.

d) Examples: The graph shows the percent of votes for each category, but the graph does not show the number of students.

5. Examples:

a) Yes. Height is continuous data.

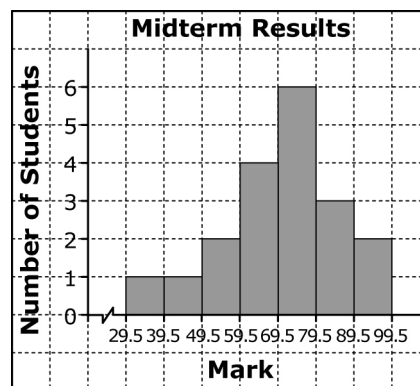
b) No. Histograms are best used to show the frequency of data.

c) Yes. Histograms are best used to show the frequency of data.

6. a)

Mark Interval	Tally	Frequency
29.5-39.5	I	1
39.5-49.5	I	1
49.5-59.5	II	2
59.5-69.5	IIII	4
69.5-79.5	IIII I	6
79.5-89.5	III	3
89.5-99.5	II	2

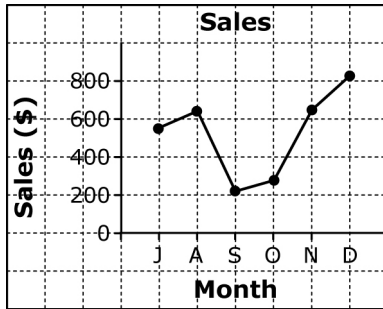
b)



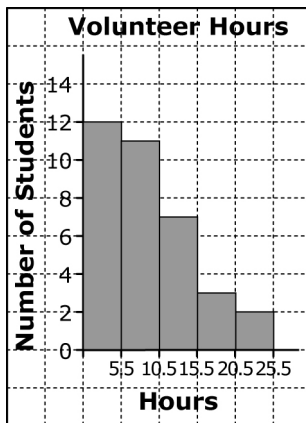
c) 69.5-79.5



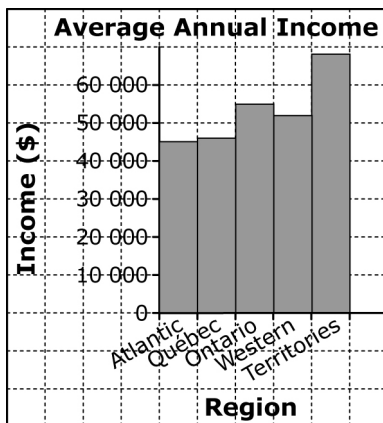
7. a) continuous data
b)



8. a)



- b) Example: A histogram is best used to show the frequency of data.
c) 34%
d) Example: No. The other types of graphs are not suitable to show frequency of data.
9. a)

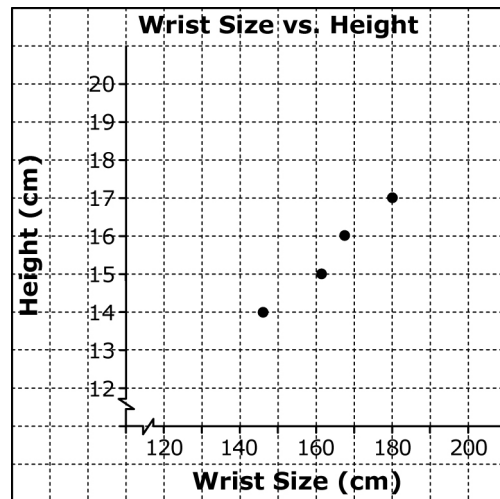


- b) Answers may vary.
c) Answers may vary.

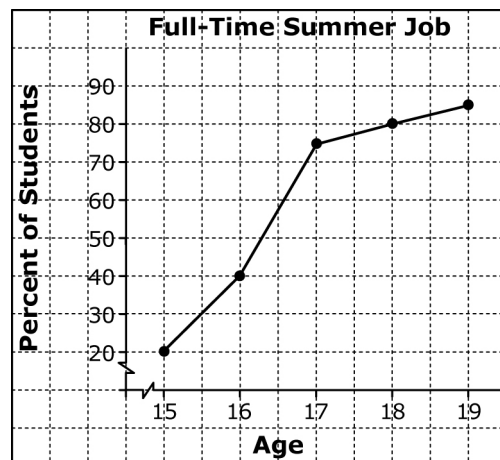
BLM 4-6 Section 4.2 Extra Practice

1. a) about 5 m b) about 165 m
c) about 15 m d) about 30 m

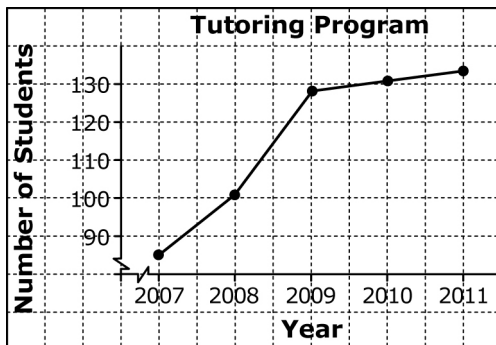
2. a)



- b) about 164 cm
c) about 18 cm
3. a) about 15°C
b) April or November
c) Example: John should make sure that the weather is not unseasonably warm this April or November.
4. a) Example: It cools quickly, then levels to 20°C.
b) Example: It cools quickly, then levels to 5°C. It cools faster than the tea.
c) Example: The coffee cools more quickly than the tea, since it is outside. The outside temperature is about 5°C. The temperature in the kitchen is about 20°C.
5. a) Example: The number increases after the first week, then drops each week after.
b) Example: A bar graph would accurately represent the data.
6. a)



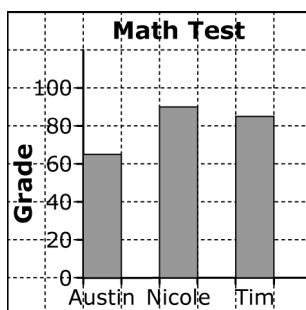
- b)** Example: A larger percent of older students have a full-time summer job, compared to younger students.
c) bar graph
7. a)



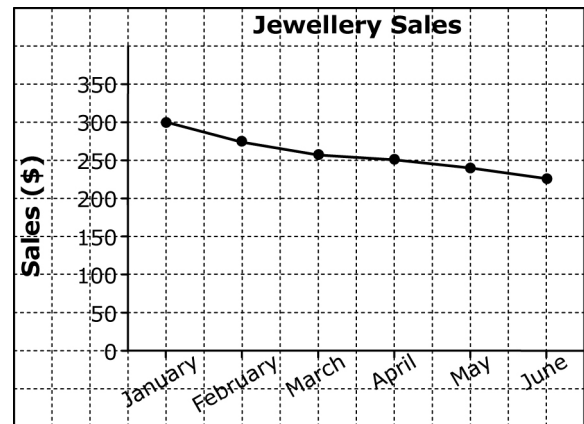
- b)** Number of students increases each year.
c) Example: Yes, because more students use the program each year.

BLM 4-7 Section 4.3 Extra Practice

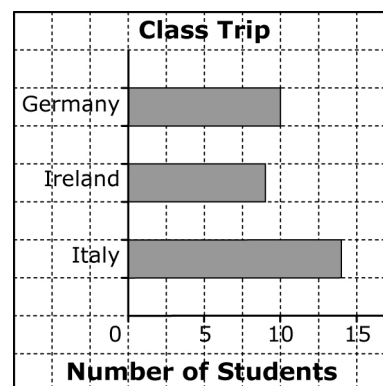
- 1. a)** This is not accurate, because the graphs show the percent of money spent on rent, but not the total expenditures.
b) St. John's: \$7200; Corner Brook: \$6750
c) Example: No. In order to answer part a), the total expenditures need to be labelled on the graph.
2. a) Example: Sales fell sharply in April. Pots and pans were sold the most in April.
b) bar graph
3. a) Example: Almost no girls used weights. Almost no boys did a cardio workout.
b) Example: Yes. A very large group of students would mean that some girls used weights, even if the percent is low.
4. a) The vertical axis has a break at 0.
b) Austin scored much lower than the others on the math test.
c)



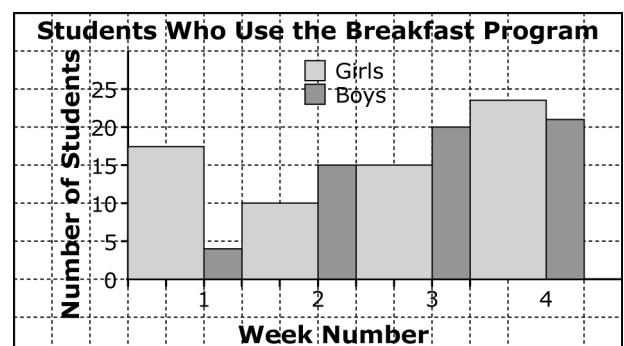
- 5. a)** No. The vertical axis of the graph starts at \$200.
b) Start the vertical axis at 0.



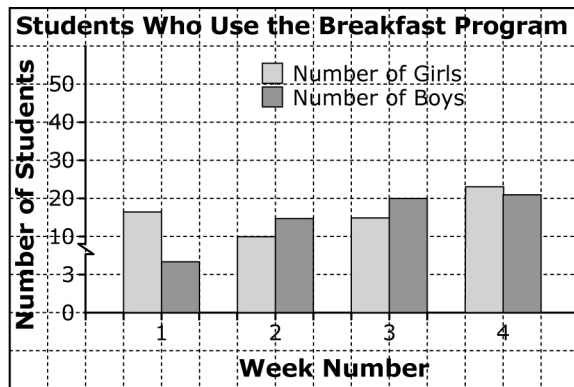
- 6. a)** Italy is the most popular choice, and Ireland is the least popular choice.
b) The horizontal axis is from 8 to 15 in the first graph, and from 0 to 100 in the second graph. **c)** Italy **d)** Ireland
e)



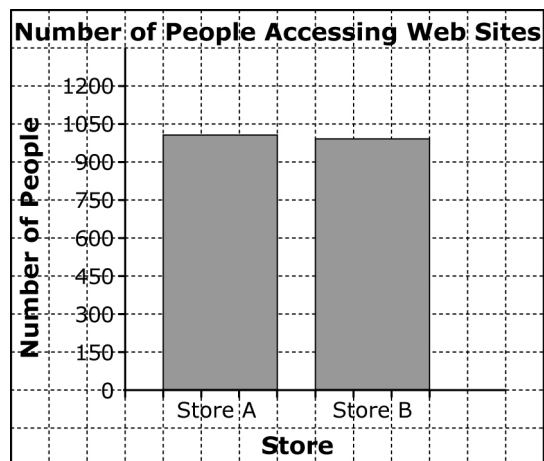
- 7. a)**



b)

**BLM 4-8 Chapter 4 Test**

1. B
2. D
3. D
4. C
5. B
6. a) a double bar graph



b) Example: The number of people accessing the web sites for the stores is almost the same.

c) Example:



7. a) Example: The graphs are similar in that they show the same data. They are different in that the vertical axis in graph B has a break and uses a different scale.

b) Graph B is misleading because the break in the vertical axis overemphasizes the increase in sales.

c) Example: The sales manager could use graph B to promote his store to potential customers because it makes his sales appear stronger than they really are.

