

ML8 Chapter 2 Warm-Up Answers

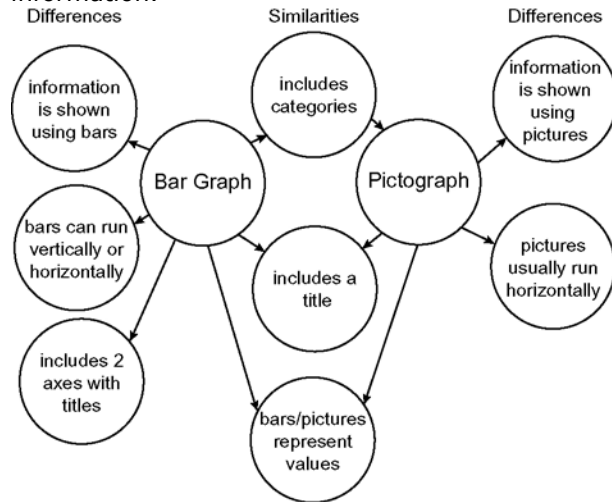
BLM 2–3 Chapter 2 Warm-Up

Section 2.1

- circle
- a) Look for a sketch of a circle graph with fiction taking up $\frac{1}{5}$ of the circle and non-fiction taking up $\frac{4}{5}$ of the circle.

b) Answers may vary. Example: A circle graph shows the comparative number of books of each type taken out.

3. Organizers may differ. Look for the following information.



- a) The length of the axis has been shortened.
- Answers may vary. Example: You might use a break symbol when all of the data is well above a certain number.
- Answers may vary. Example: The graph gives the impression that hockey is at least four times as popular as soccer. The data indicates that hockey is twice as popular as soccer. Students should note that the scale is distorted and the graph is missing a title.
- $\frac{1}{2}$
- 180°
- $\frac{1}{3}$
- 270
- 144°

Section 2.2

- double bar graph
- Answers may vary. Example: The format of a graph can be misleading if it distorts the scale or the information by using visuals of different sizes.
- 4 : 3
- stars to diamonds
- 4 : 3 : 5
- $\frac{1}{5}$
- 90°
- $\frac{5}{40}$ or $\frac{1}{8}$, 0.125, 12.5%
- $\frac{9}{12}$ or $\frac{3}{4}$, 0.75, 75%
- $\frac{14}{28}$ or $\frac{1}{2}$, 0.5, 50%

Section 2.3

- double line graph
- a) Papa's Best Popcorn. It has the larger visual and shows 56%.
b) Answers may vary. Example: The visual for Papa's Best Popcorn is proportionally larger than the one for Popcorn World.
c) Answers may vary. Example: The two popcorn visuals should be close to the same size. The one from Popcorn World should be a little smaller, but not this much smaller.
- 300 m/min
- a) \$5.49 for 750 g \approx \$5 for 700 g \approx \$0.70 per 100 g; \$1.99 for 250 g \approx \$2 for 200 g \approx \$1 per 100 g
b) \$5.49 for 750 g = \$0.007 per g or \$0.73 per 100 g; \$1.99 for 250 g = \$0.008 per g or \$0.80 per 100 g. \$5.49 for 750 g is the better buy.
- a) 25 words/min b) 375 words
- \$0.99 for 700 g \approx \$0.15 per 100 g; \$1.29 for 1250 g \approx \$0.10 per 100 g. The brand with the larger amount is the better buy.
- 200 m in 30 s \approx 210 m in 30 s \approx 7 m/s
- \$4.99 for 3 cans \approx \$4.80 for 3 cans \approx \$1.60 per can
- \$75 for 7 hours \approx \$10.50/h
- \$2.75 for 946 mL \approx \$2.75 for 1000 mL \approx \$0.003/mL or \$3/L