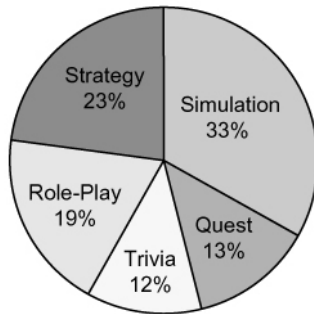


Chapter 2 Warm-Up

Section 2.1


1. What kind of graph is this?

Favourite Types of Video Games

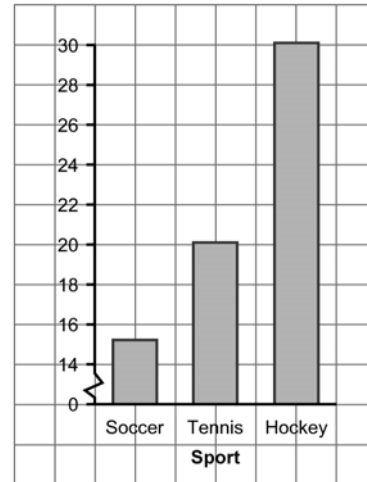


2. A librarian kept track of the number of fiction and non-fiction books taken out of the library.

Type of Book	Frequency
Fiction	1250
Non-fiction	5000

- a) Sketch a graph you could use to display this data.
 - b) Justify your choice.
3. Use an organizer to compare a bar graph and a pictograph.
4. a) What does this symbol  mean when it is on a graph?
- b) When might you use it?

5. How could this graph be misleading?

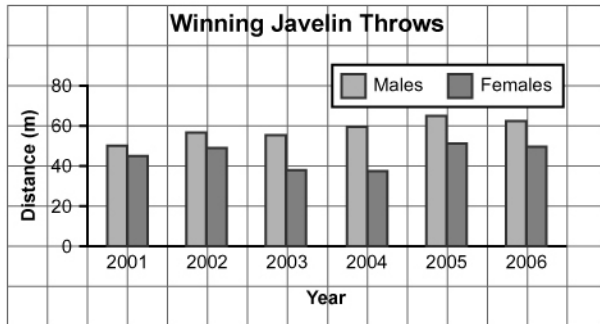


Mental Math

- 6. You want to show $\frac{25}{50}$ on a circle graph. What fraction of the circle graph do you colour?
- 7. You want to show $\frac{80}{160}$ on a circle graph. How many degrees do you need for your sector angle?
- 8. You want to show $\frac{16}{48}$ on a circle graph. What fraction of the circle graph do you colour?
- 9. You want to show $\frac{24}{32}$ on a circle graph. How many degrees do you need for your sector angle?
- 10. You want to show $\frac{16}{40}$ on a circle graph. How many degrees do you need for your sector angle?

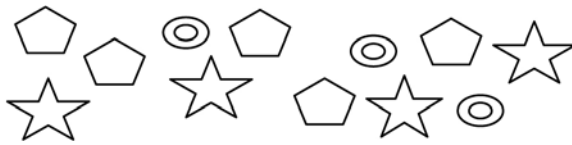
Section 2.2

1. What kind of graph is this?



2. How can the format of a graph be distorted?

Use this visual to answer #3 to #5.



3. What is a two-term ratio of stars to circles?

4. What shapes are represented by the ratio 4 : 5?
5. Write the three-term ratio comparing the stars, circles, and diamonds.

Mental Math

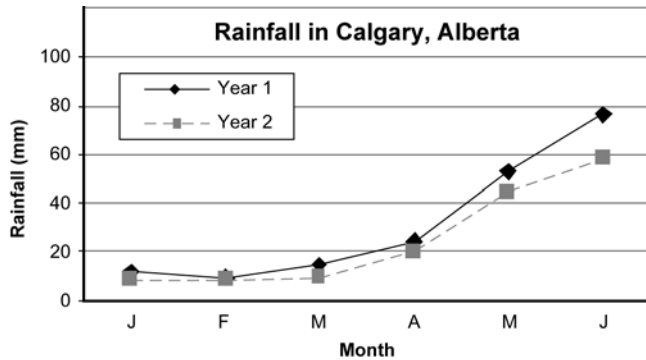
6. You want to show $\frac{5}{25}$ on a circle graph. What fraction of the circle graph do you colour?
7. You want to show $\frac{7}{28}$ on a circle graph. How many degrees do you need for your sector angle?

For #8 to #10, express the ratio as a fraction, a decimal, and a percent.

8. 5 : 40
9. 9 : 12
10. 14 : 28

Section 2.3

1. What kind of graph is this?



2. The graph in this advertisement shows the results of a taste test.

Only Papa knows how to make popcorn!



- Which brand of popcorn seems to be the most popular? Explain.
- How is the graph misleading?
- How should the graph be redrawn to represent the data more accurately?

- Javier ran 600 m in 2 min. What is the unit rate?
- Sesame butter costs \$5.49 for 750 g or \$1.99 for 250 g.
 - Estimate the cost per 100 g for each jar.
 - Calculate the better buy.
- It takes you 10 min to keyboard one quarter of your 1000-word essay.
 - Determine the unit rate.
 - At this rate, how much could you type in 15 min?

Mental Math

- One brand of pasta costs \$0.99 for 700 g. Another brand costs \$1.29 for 1250 g. Estimate the better buy.

For #7 to #10, mentally estimate the unit rate. Show your thinking.

- Chris runs 200 m in 30 s.
- A brand of dog food is priced 3 cans for \$4.99.
- Jess earns \$75 for 7 hours work.
- Juice costs \$2.75 for 946 mL.