# Practice Test

## Multiple Choice

*For questions 1 to 6, select the correct answer.*

**Hamburger Sales**



McRobert's
Sally's
Burger Buddy
Fast Fry

represents $200 in sales
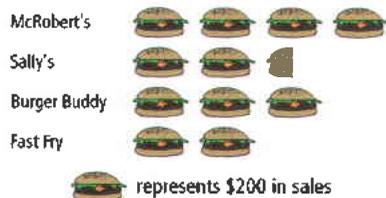
**1.** According to the pictograph, which restaurant sold $400 in hamburgers?

  **A** McRobert's    **B** Sally's

  **C** Burger Buddy  **D** Fast Fry

*The stem-and-leaf plot shows the number of goals scored by the forwards of a hockey team. Use the data to answer questions 2 to 4.*

| Stem (tens) | Leaf (ones) |
|---|---|
| 0 | 7 9 |
| 1 | 1 4 4 9 |
| 2 | 0 2 6 |
| 3 | 3 8 |
| 4 | 8 |

**2.** How many forwards scored more than 30 goals?

  **A** 2      **B** 3

  **C** 4      **D** 5

**3.** How many goals did the two lowest scoring forwards get in total?

  **A** 7      **B** 9

  **C** 14     **D** 16

**4.** Two forwards scored the same number of goals. How many?

  **A** 9      **B** 14

  **C** 38     **D** 48

*The circle graph shows how Raymond spent a $2500 scholarship. Use the information to answer questions 5 and 6.*

**Raymond's Scholarship**



Supplies 10%
Other
Books 20%
Tuition 60%
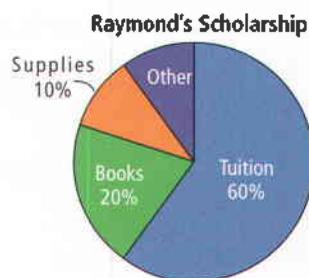
**5.** According to the circle graph, what did Raymond spend the most on?

  **A** supplies    **B** tuition

  **C** books      **D** other

**6.** According to the circle graph, how much did Raymond spend on "Other" items?

  **A** $250    **B** $500

  **C** $800    **D** $1200

## Short Answer

**7.** The daily high temperatures, in degrees Celsius, for a two-week period in the summer are given.

  27  31  28  33  30  25  24

  19  27  27  34  31  29  22

  **a)** Create a stem-and-leaf plot to show the data.

  **b)** What was the most common daily high temperature? How many days had this as the daily high temperature?

**8. a)** Use an organizer to show the difference between a database and a spreadsheet.

  **b)** Why did you choose that type of organizer?

## Extended Response

**9.** A group of 24 students were surveyed about their favourite colour.

| Colour | Tally | Frequency |
|--------|-------|-----------|
| Blue | ℍℍ ||| | |
| Green | |||| | |
| Red | ℍℍ | | |
| Purple | ||| | |
| Other | ||| | |

**a)** Copy and complete the frequency table.
**b)** Display the data using a bar graph.
**c)** Display the data using a circle graph.
**d)** Which graph displays the data best? Explain.

**10.** A basketball coach uses the circle graph to plan her team's practices. Practices run for 90 min.

**Basketball Practice**
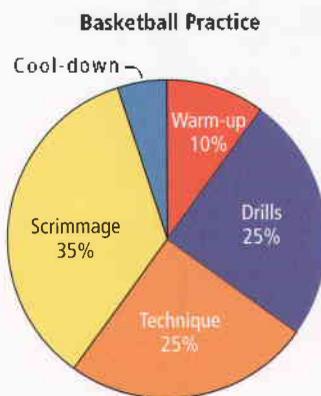


**a)** Determine the amount of practice time spent on each activity. Round your answers to the nearest minute.
**b)** Write up a practice schedule that begins at 4:00 P.M. Include the start time for each activity.

## Chapter Problem Wrap-Up

In question 18 on page 279, question 12 on page 291, and question 16 on page 297, you explored collecting and organizing data about books and magazines.

You are the publisher of a new magazine for students in grades 7 to 9. You are planning the first issue. Your editor has surveyed several grade 7 and grade 8 students. The results of the survey are shown.

**1.** Organize and display the data.

**2.** What organization method did you use, and why?

**3.** Did you use technology? Explain why or why not.

**4.** What information can you get from your data display?

**Grade 7 Students**

| Topic | Tally |
|-------|-------|
| Global issues | ||| |
| Entertainment | ℍℍ ℍℍ ℍℍ || |
| Health and fitness | ℍℍ |
| People and careers | ℍℍ ||| |
| Sports | ℍℍ ℍℍ |
| Technology | ℍℍ ℍℍ || |

**Grade 8 Students**

| Topic | Tally |
|-------|-------|
| Global issues | ℍℍ |
| Entertainment | ℍℍ ℍℍ ||| |
| Health and fitness | ℍℍ |
| People and careers | ℍℍ |||| |
| Sports | ℍℍ ℍℍ |
| Technology | ℍℍ ℍℍ ||| |

# Chapter 9

1. Each burger picture represents **$200**. $400 = 2 pictures. The restaurant with 2 burgers is **Fast Fry**. **Answer: D**

2. Goals greater than 30 are: 33, 38, 48 There are **3** players. **Answer: B**

3. Two lowest scores: 7 and 9, 7 + 9 = **16, Answer: D**

4. The repeated number is **14**. **Answer: B**

5. Largest portion on circle graph = **Tuition (60%), Answer: B**

6. "Other" = 10% of $2500, 0.10 × 2500 = **$250, Answer: A**

7. Temperatures: 27, 31, 28, 33, 30, 25, 24, 19, 27, 27, 34, 31, 29, 22
    a. 1 | 9
       2 | 2 4 5 7 7 7 8 9
       3 | 0 1 1 3 4
    b. The most common temperature was **27° C.** It occurred for **3 days**.

8. **Ans:**
    a. A Venn diagram could show the similarities and differences:
        i. **Database**
            1. Stores large amounts of data
            2. Organizes into tables
            3. Allows searching/filtering
        ii. **Spreadsheet**
            1. Uses rows and columns
            2. Used for calculations
            3. Creates charts
    b. Chosen because it clearly compares similarities and differences.

9. **Ans:**
    a. Blue = 8, Green = 4, Red = 6, Purple = 3, Other = 3
    b. **Bar Chart:** Blue - - - - - - - - Green - - - - Red - - - - - - Purple - - - Other - - -
    c. **Circle graph:** Blue largest slice (33%), then Red (25%), then Green (17%), Purple (12%) & Other (12%).
    d. Bar graph displays the data best because it clearly compares amounts.

10. **Ans:**
    a. Practice = 90 minutes, Warm-up 10% → 9 min, Drills 25% → 23 min, Technique 25% → 23 min, Scrimmage 35% → 32 min, Cool-down 5% → 5 min
    b. **Practice Schedule (starting 4:00 PM):** 4:00–4:09 Warm-up, 4:09–4:32 Drills, 4:32–4:55 Technique, 4:55–5:27 Scrimmage, 5:27–5:32 Cool-down