

# PDM4-1 Gathering Data

**REMINDER:** Data you collect yourself is called **primary** (or **first-hand**) data.  
Data collected by someone else is called **secondary** (or **second-hand**) data.

1. How would you collect the primary data? Write the letter for your choice.

**A.** survey    **B.** observation    **C.** measurement

- a) How does the temperature of a cup of heated water change over time? \_\_\_\_\_
- b) What are your classmates' favourite movies? \_\_\_\_\_
- c) How far can the students in your class jump? \_\_\_\_\_
- d) How many students in your class have brown hair? \_\_\_\_\_
- e) Do you think it will rain in the next 20 minutes? \_\_\_\_\_

2. Would you use primary or secondary data to answer the question?

- a) What is the average temperature where you live? \_\_\_\_\_
- b) How old are the students in your class? \_\_\_\_\_
- c) How many medals has Canada won in the last five Olympics? \_\_\_\_\_
- d) Which city gets more hours of sunlight, Calgary or Winnipeg? \_\_\_\_\_
- e) How do most students in your class get to school? \_\_\_\_\_
- f) How do most students in Canada get to school? \_\_\_\_\_

3. How is the data in Question 2 collected?

**A.** survey    **B.** observation    **C.** measurement

- a) \_\_\_\_\_    b) \_\_\_\_\_    c) \_\_\_\_\_    d) \_\_\_\_\_    e) \_\_\_\_\_    f) \_\_\_\_\_

4. Are all possible responses given? If not, add an "other" category.

- a) What is your favourite sport?  
 hockey     volleyball     basketball
- b) What is your favourite season?  
 spring     summer     fall     winter
- c) What is your favourite colour?  
 blue     red     yellow
- d) What is your favourite primary colour?  
 blue     red     yellow

5. Would everyone know the answer to the question? Write “yes” or “no” to answer.

- a) What’s your favourite colour? \_\_\_\_\_      b) On what day of the week were you born? \_\_\_\_\_  
c) When is your birthday? \_\_\_\_\_      d) What’s your eyeglass prescription? \_\_\_\_\_

6. Add a category so that everyone can answer the question.

- a) What is your favourite pizza topping?  
 pepperoni    pineapple    mushroom    \_\_\_\_\_
- b) In which season were you born?  
 winter    spring    summer    \_\_\_\_\_
- c) Which of these colours do you like best?  
 red    yellow    blue    green    \_\_\_\_\_
- d) How tall are you?  
 under 1.2 m    1.2 to 1.3 m    1.3 to 1.4 m    1.4 to 1.5 m    \_\_\_\_\_

7. a) Write a survey question to ask students in your class.

\_\_\_\_\_

\_\_\_\_\_

b) Write the possible responses to your question.

<input type="checkbox"/> _____	<input type="checkbox"/> _____
<input type="checkbox"/> _____	<input type="checkbox"/> _____
<input type="checkbox"/> _____	<input type="checkbox"/> _____

8. a) Write a question that you will need secondary data to answer.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

b) Why can’t you collect the data yourself?

\_\_\_\_\_



\_\_\_\_\_


\_\_\_\_\_

# PDM4-2 Pictographs



A **scale** shows what the symbol means on a pictograph.  
 10 students eat lunch at home and 20 students eat lunch at school.  
 Both pictographs show the same data, but they use different scales.


**Lunch Location**

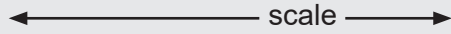
<b>At home</b>	
<b>At school</b>	

 = 10 students


**Lunch Location**


<b>At home</b>	
<b>At school</b>	

 = 5 students





1. Look at the scale and multiply to find what the group of symbols means.

a)  = 5 people

 = \_\_\_\_\_ people

 = \_\_\_\_\_ people

b)  = 7 flowers

 = \_\_\_\_\_ flowers

 = \_\_\_\_\_ flowers

2.  = 5 boxes. Draw symbols to show the number.




a) 15 boxes = \_\_\_\_\_

b) 30 boxes = \_\_\_\_\_

c) 5 boxes = \_\_\_\_\_

3. a) Use the pictograph to fill in the table.

**Flowers in Evan's Garden**  = 5 flowers

<b>Roses</b>	
<b>Pansies</b>	
<b>Marigolds</b>	

Type of Flower	Number of Flowers
Roses	
Pansies	
Marigolds	

b) Use the data in part a) to draw a pictograph with the new scale.

**Flowers in Evan's Garden**  = 10 flowers

<b>Roses</b>	
<b>Pansies</b>	
<b>Marigolds</b>	

c) How many flowers does Evan have in total? \_\_\_\_\_

d) Evan used the flowers to plant 5 identical flower beds. How many of each type of flower does he have in each bed?

Roses: \_\_\_\_\_

Pansies: \_\_\_\_\_

Marigolds: \_\_\_\_\_

Half a symbol means half the number. Example: If ☺ = 4, then ☺ =  $4 \div 2 = 2$ .

4. The first row shows what ☺ means. What does ☺ mean? Fill in the table.

☺	10	20	8	50	30	6	12
☺							

5. The first row shows what one symbol means. What does each group of symbols mean?

a)

☆	2	10	100
☆ ☆			
☆ ☆ ☆ ☆			
☆ ☆ ☆ ☆ ☆ ☆			

b)

☺	8	20	12
☺ ☺ ☺			
☺ ☺ ☺ ☺ ☺			
☺ ☺ ☺ ☺ ☺ ☺ ☺			

6. a) Use the pictograph to fill in the table.

**How Students Get to School**

<b>Car</b>	☺ ☺ ☺
<b>Bus</b>	☺ ☺ ☺ ☺ ☺ ☺ ☺ ☺
<b>Bike</b>	☺ ☺ ☺
<b>Walk</b>	☺ ☺ ☺ ☺ ☺ ☺

☺ = 10 students

Mode of Transportation	Number of Students
Car	
Bus	
Bike	
Walk	

- b) How many students were surveyed? \_\_\_\_\_
- c) How many times as many students walk as take a car? \_\_\_\_\_
- d) How many more students take the bus than walk? \_\_\_\_\_
- e) Fill in the Carroll diagram with the number of students whose transportation to school is in each category.

	Has an Engine	Does Not Have an Engine
Has Wheels		
Does Not Have Wheels		

**BONUS** ► Name a means of transportation that has an engine but no wheels.

\_\_\_\_\_

# PDM4-3 Creating Pictographs


1. a) Count the tallies and draw a pictograph with the given scale.


**Plant**

**Roses:**  = \_\_\_\_\_ roses

**Pansies:**  = \_\_\_\_\_ pansies

**Dandelions:**  = \_\_\_\_\_ dandelions

i)  = 5 flowers

ii)  = 10 flowers





<b>Roses</b>	<b>Pansies</b>	<b>Dandelions</b>

<b>Roses</b>	<b>Pansies</b>	<b>Dandelions</b>





- b) How many times as many roses as dandelions are there? \_\_\_\_\_  
 c) Choose a title for the pictographs.

2. The first line shows the data. Circle the scale that works best for the data.





a) 12, 4, 18, 6

-  = 2
-  = 3
-  = 5
-  = 10





b) 30, 90, 60, 105

-  = 2
-  = 3
-  = 5
-  = 10

c) 9, 12, 6, 27

-  = 2
-  = 3
-  = 5
-  = 10

d) 25, 10, 35, 15

-  = 2
-  = 3
-  = 5
-  = 10

3. In Question 2.b), what would be your second choice for the scale? Explain.

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4. A birdwatcher made a tally of the birds she saw on her trip. Create a pictograph of the data.

a) Tally the data.

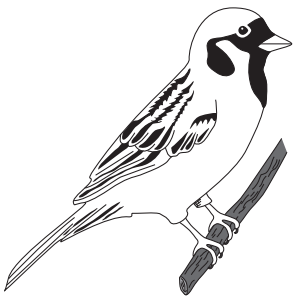
**Bird**

**Robins:**     |||| |||| |||| |||| |||| |||| |||| ||||     \_\_\_\_\_

**Jays:**        |||| |||| |||| |||| ||||     \_\_\_\_\_

**Sparrows:**   |||| |||| |||| |||| |||| |||| |||| |||| |||| |||| ||||     \_\_\_\_\_

**Finches:**     |||| |||| ||||     \_\_\_\_\_



- b) Fill in the title and labels on the pictograph.
- c) Choose a symbol and a scale.
- d) Complete the pictograph.

Title: \_\_\_\_\_

Scale: \_\_\_\_\_ = \_\_\_\_\_ birds

**Bird**


e) Order the birds from most to least common.

\_\_\_\_\_

- f) How many birds were seen in total? \_\_\_\_\_
- g) Which two types of birds together make up half the birds seen? \_\_\_\_\_
- h) Which type of bird was seen exactly twice as often as another type? \_\_\_\_\_
- i) How many more sparrows than finches were seen? \_\_\_\_\_
- j) How many more sparrows and robins were seen than jays and finches? \_\_\_\_\_
- k) Make up your own question from the pictograph. Write the answer.

\_\_\_\_\_

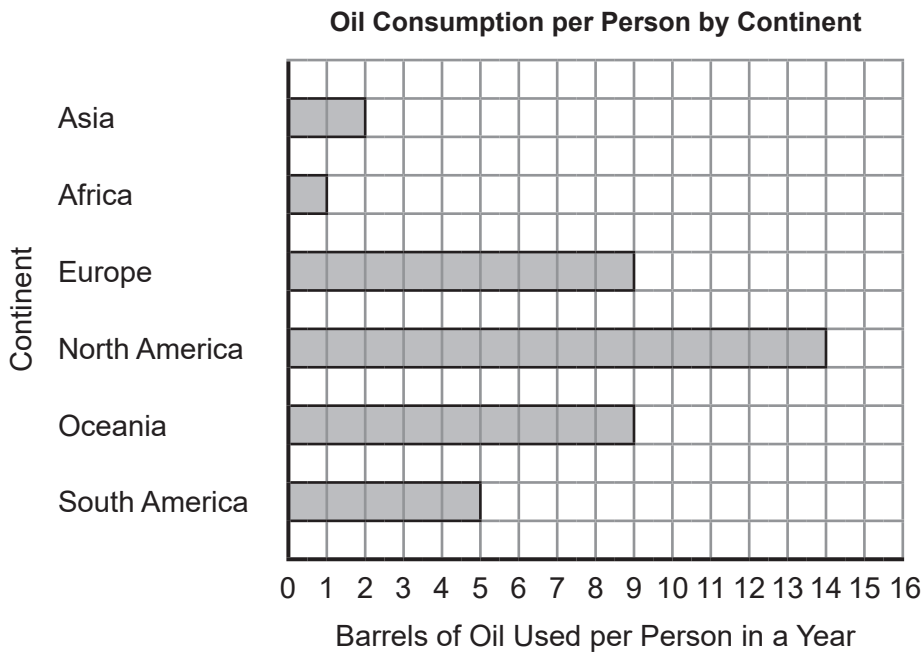
\_\_\_\_\_

\_\_\_\_\_

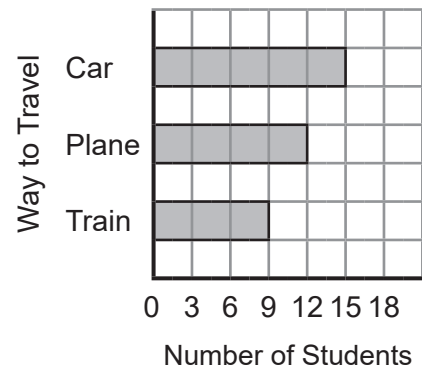
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# PDM4-4 Bar Graphs

1. The bar graph shows approximately how many barrels of oil are used per person, each year, on every continent.



- Which continent uses the least oil per person? \_\_\_\_\_
  - Which continent uses the most oil per person? \_\_\_\_\_
  - How many times as much oil does Asia use as Africa? \_\_\_\_\_
  - Which two continents use the same amount of oil? \_\_\_\_\_
  - How many barrels of oil per person per year does Europe use? \_\_\_\_\_
2. Rick asked his classmates if they liked travelling by car, plane, or train the most. He showed the answers in a bar graph.



- What number does the scale count by? \_\_\_\_\_
- How many students prefer to travel by train? \_\_\_\_\_
- How many more students prefer the car to the plane? \_\_\_\_\_
- How many students were surveyed altogether? \_\_\_\_\_

**BONUS** ► Could a bar on this graph end in the middle of a block? Explain.

\_\_\_\_\_

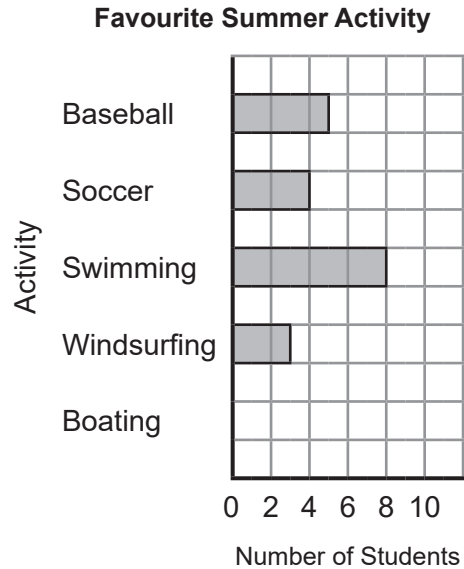
\_\_\_\_\_

A bar can end between two numbers on a bar graph.

3. Students voted for their favourite summer activity. The bar graph shows the results.

a) Fill in the table.

Favourite Activity	Number of Students
Baseball	5
Soccer	
Swimming	
Windsurfing	



- b) 9 students picked boating. Add this to the table. Add the bar for boating to the bar graph.
- c) Fill in the blank.
- \_\_\_\_\_ times as many students picked boating as windsurfing.
  - \_\_\_\_\_ times as many students picked swimming as soccer.
  - \_\_\_\_\_ students picked water activities.
  - \_\_\_\_\_ times as many students chose water activities as soccer.
  - \_\_\_\_\_ was the most popular activity.
  - \_\_\_\_\_ was the least popular activity.
  - How many students were surveyed? \_\_\_\_\_

**BONUS ►**

- d) Kyle thinks that the bar for swimming is 2 blocks longer than the bar for soccer, so 2 more students voted for swimming. Is he correct? Explain.

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- e) On Sports Day, the class can choose three of these activities. Which three should they choose? Explain.

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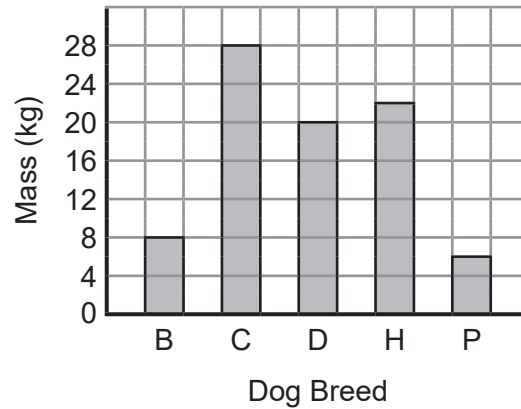
# PDM4-5 Creating Bar Graphs

1. Sara is researching different dog breeds.

a) Fill in the table using Bar Graph 1.

Dog Breed	Mass (kg)
Beagle (B)	
Collie (C)	
Dalmatian (D)	
Husky (H)	
Pug (P)	

**Bar Graph 1**  
Dog Breeds and Masses



b) What number does the scale skip count by? \_\_\_\_\_

c) Are there bars that end between the numbers? \_\_\_\_\_

d) How many blocks long is the tallest bar? \_\_\_\_\_

e) Use the table to complete Bar Graph 2 with a scale that skip counts by 2 to show the same information.

f) Are there bars that end between the numbers? \_\_\_\_\_

g) Which graph takes more space? \_\_\_\_\_

h) Use the graphs to find out which dog breed has a mass 8 kg greater than a dalmatian.

\_\_\_\_\_

Which graph makes this easier

to answer? \_\_\_\_\_

i) Use the graphs to find out which breed weighs 22 kg less than a collie.

\_\_\_\_\_

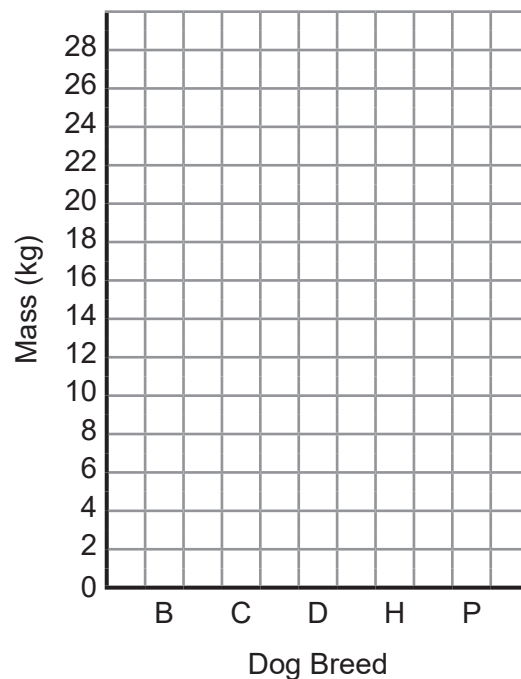
Which graph makes this easier

to answer? \_\_\_\_\_

j) How much would 2 beagles, 1 collie, 1 dalmatian,

2 huskies, and 3 pugs weigh altogether? \_\_\_\_\_

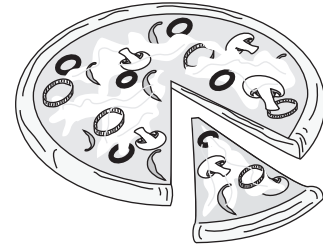
**Bar Graph 2**  
Dog Breeds and Masses



2. Tasha surveyed her grade about their favourite pizza. She gave students four choices.

a) Here are the results of Tasha's survey. Tally the data.

Plain cheese: IIII IIII IIII IIII IIII \_\_\_\_\_  
 Pepperoni: IIII IIII IIII IIII IIII IIII IIII \_\_\_\_\_  
 Hawaiian: IIII IIII IIII \_\_\_\_\_  
 Vegetarian: IIII IIII IIII IIII IIII IIII IIII IIII IIII \_\_\_\_\_



- b) Fill in the title and axis labels on the bar graph.
- c) Choose a number to count by. Fill in the numbers on the axis.
- d) Complete the bar graph.

Title: \_\_\_\_\_

Plain Cheese										
Pepperoni										
Hawaiian										
Vegetarian										

0 \_\_\_\_\_

- e) Write the pizzas in order from most to least popular.  
 \_\_\_\_\_
- f) How many students were surveyed altogether? \_\_\_\_\_
- g) How many times as many people preferred vegetarian to Hawaiian? \_\_\_\_\_
- h) How many times as many people preferred plain cheese to Hawaiian? \_\_\_\_\_

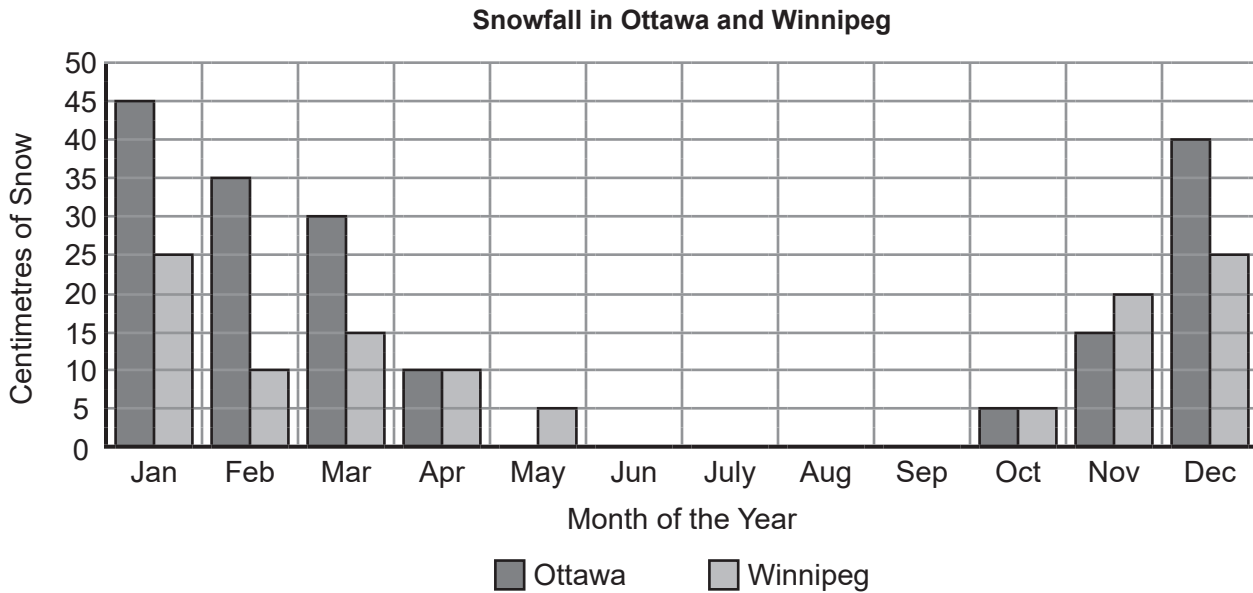
**BONUS** ▶ Tasha uses the information in Question 2 to buy pizzas for her grade.

- a) If 1 pizza can feed 5 people, how many pizzas should she buy? \_\_\_\_\_
- b) How many of each type of pizza should she buy?  
 Plain: \_\_\_\_\_ Pepperoni: \_\_\_\_\_ Hawaiian: \_\_\_\_\_ Vegetarian: \_\_\_\_\_
- c) If 1 pizza can feed 8 people, how many of each type should she buy?  
 Plain: \_\_\_\_\_ Pepperoni: \_\_\_\_\_ Hawaiian: \_\_\_\_\_ Vegetarian: \_\_\_\_\_

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# PDM4-6 Double Bar Graphs

1. The double bar graph compares the average monthly snowfall in Ottawa and Winnipeg.



- a) In which months of the year does Winnipeg get more snow than Ottawa? \_\_\_\_\_
- b) Which city gets more snow overall? \_\_\_\_\_
- c) How much more snow does it get? \_\_\_\_\_
- d) In which months does Ottawa get at least twice as much snow as Winnipeg?  
\_\_\_\_\_
- e) Which city has a longer winter? Explain.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. Would the comparison be suitable for a double bar graph? Explain.

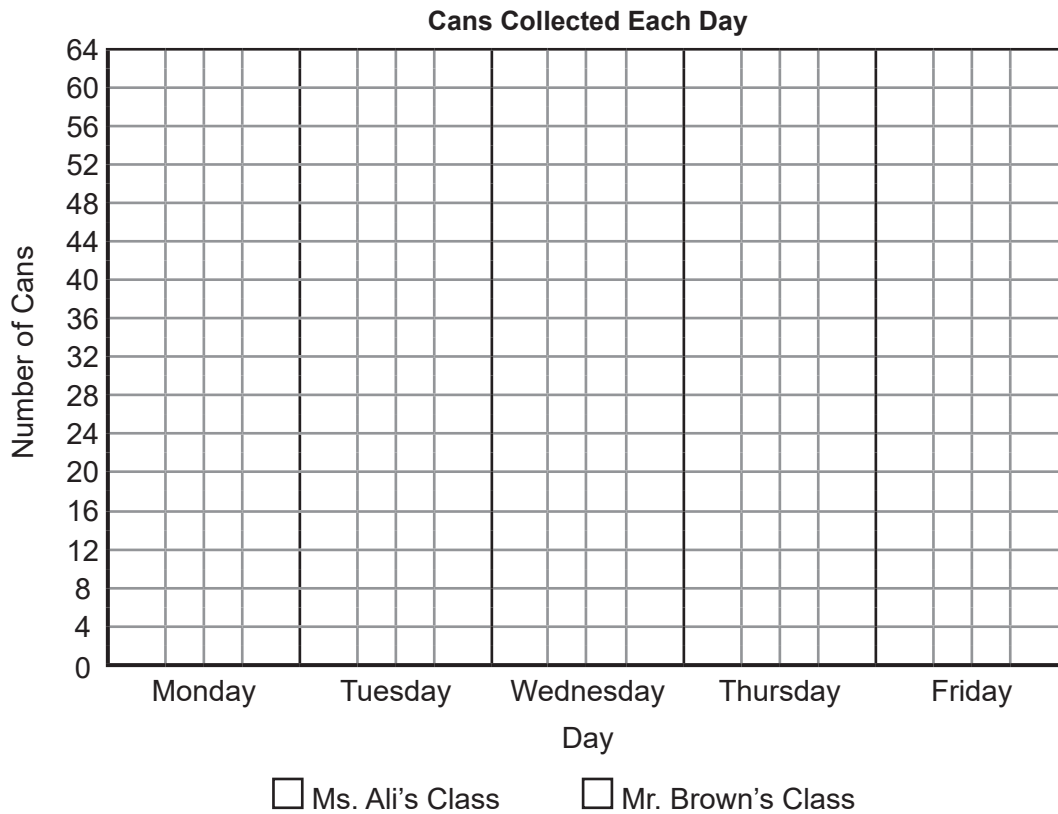
- a) Compare the heights to weights of students by age.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- b) Compare favourite movies of Grade 1 and Grade 6 students.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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3. Two Grade 4 classes challenged each other to collect food for a food bank for a week. Both classes kept track of how many cans were brought in each day.

	Monday	Tuesday	Wednesday	Thursday	Friday
Ms. Ali's class	6	12	18	34	60
Mr. Brown's class	30	22	26	20	32

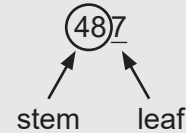
- a) Choose a colour to use for Ms. Ali's class, and colour in the box next to her name. Then use that colour to show the data in the double bar graph.
- b) Choose a different colour for Mr. Brown's class. Add the data to the double bar graph.



- c) Which class collected the most cans of food? \_\_\_\_\_
- d) In one class, a parent volunteered to help by collecting cans of food at home and bringing them by car at the end of the week.  
In which class do you think this happened? \_\_\_\_\_
- e) On which day did Mr. Brown's class bring 5 times as much food as Ms. Ali's? \_\_\_\_\_
- f) On which day did Ms. Ali's class bring almost twice as much food as Mr. Brown's? \_\_\_\_\_

# PDM4-7 Stem and Leaf Plots

The **leaf** of a number is its right-most digit.  
 The **stem** is all its digits except the right-most digit.  
 The stem of a one-digit number is 0 since there are no digits except the right-most one.



1. Underline the leaf.

- |                 |          |          |              |            |
|-----------------|----------|----------|--------------|------------|
| a) 1 2 <u>3</u> | b) 3 1   | c) 7 2   | d) 4         | e) 3 8     |
| f) 9 0          | g) 8 0 1 | h) 4 4 4 | i) 3 2 2 9 5 | j) 4 3 4 1 |

2. Circle the stem.

- |               |        |          |            |              |
|---------------|--------|----------|------------|--------------|
| a) <u>0</u> 5 | b) 3 7 | c) 1 2 3 | d) 3 1     | e) 5 9 8 7 3 |
| f) 1 8        | g) 6   | h) 1 0   | i) 4 3 2 1 | j) 9 0 0 0   |

3. Underline the leaf and circle the stem.

- |          |          |          |            |              |
|----------|----------|----------|------------|--------------|
| a) 8     | b) 8 3   | c) 8 3 1 | d) 8 3 1 0 | e) 4 0 7 1   |
| f) 6 8 9 | g) 9 0 7 | h) 8 9 9 | i) 3       | j) 6 2 4 5 9 |

4. Write a number with leaf 0: \_\_\_\_\_. Write a number with stem 0: \_\_\_\_\_.

5. Underline the numbers that have the same stem.

- |                   |                    |                     |
|-------------------|--------------------|---------------------|
| a) 78, 74, 94     | b) 89, 90, 91      | c) 77, 67, 76       |
| d) 371, 379, 391  | e) 263, 26, 265    | f) 39, 390, 394     |
| g) 5782, 578, 574 | h) 34, 341, 3, 340 | i) 291, 287, 28, 29 |

6. Circle the stems. Then write the stems from smallest to largest.

- |                           |                           |                           |
|---------------------------|---------------------------|---------------------------|
| a) 13 9 8 24 64 18 25     | b) 26 29 48 53 27 9 44    | c) 99 134 136 128 104 97  |
| ____, _____, _____, _____ | ____, _____, _____, _____ | ____, _____, _____, _____ |

**BONUS** ▶ a) Do numbers with the same stem have the same number of digits? Explain.

\_\_\_\_\_

\_\_\_\_\_

b) Do numbers with the same leaf have the same number of digits? Explain.

\_\_\_\_\_

\_\_\_\_\_

To build a stem and leaf plot for the data set 38, 29, 26, 42, 43, 34:

**Step 1:** Find the stems. The stems are 2, 3, and 4.

**Step 2:** Write the stems from smallest to largest.

**Step 3:** Write the leaves for each stem in the leaf column.

**Step 4:** Order the leaves by row from smallest to largest.

Stem	Leaf
2	
3	
4	

Stem	Leaf
2	9 6
3	8 4
4	2 3

Stem	Leaf
2	6 9
3	4 8
4	2 3

7. Put the leaves in the correct order. Then list the data from smallest to largest.

a)

Stem	Leaf	Stem	Leaf
2	4 1	2	1 4
3	8 6 5		
4	3 2		

b)

Stem	Leaf	Stem	Leaf
0	4		
1	9 5		
2	3 8 0		

c)

Stem	Leaf	Stem	Leaf
8	3 0		
9	0 7 2		
10	6		

d)

Stem	Leaf	Stem	Leaf
9	2 1 8		
10	4 2 4		
11	5 0		

8. Create a stem and leaf plot from the data.

a) 9, 7, 12, 19, 10

Stem	Leaf	Stem	Leaf

b) 99, 98, 102, 99, 101

Stem	Leaf	Stem	Leaf

9. Anna and some friends ran a 5 km race. Their recorded times were 26, 32, 38, 29, and 40.

a) What unit of measurement do you think they used: seconds, minutes, hours, or days? \_\_\_\_\_

b) Make a stem and leaf plot of the data.

# PDM4-8 Range, Median, and Mode

The **range** of a data set is the difference between the largest and the smallest data values.  
 Example: The range of 3, 7, 9, 4 is  $9 - 3 = 6$ .

1. Find the range of the data set.

a) 6, 9, 4, 12, 5

b) 7, 4, 8, 6, 11, 9

c) 42, 39, 36, 41, 41

\_\_\_\_\_ - \_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ = \_\_\_\_\_

The **median** of a data set is the middle number when the data is arranged in order.  
 To find the median, put the data in order. Cross out from either end until you reach the middle.  
 Example:

~~2~~   ~~3~~   **6**   ~~7~~   ~~11~~  
 The median is 6.

2. Circle the median of the data set.

a) 1, 5, 12, 31, 42

b) 3, 4, 6, 8, 11, 13, 13

c) 2, 2, 8

d) 21, 123, 144, 167, 932

If there are two middle numbers, the median is halfway between the two numbers.  
 Example:

4   6   **7   9**   10   11  
 The median is 8 because  $9 - 8 = 8 - 7$ , so 8 is halfway between 7 and 9.

3. Find the number that is halfway between the given numbers.

a) 6 and 8

b) 13 and 15

c) 40 and 44

d) 10 and 20

e) 35 and 45

f) 63 and 73

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

4. Circle the middle number or numbers. Find the median.

a) 2, 4, 6, 7, 8

b) 2, 3, 3, 8

\_\_\_\_\_

\_\_\_\_\_

c) 7, 9, 13, 14, 26

d) 3, 4, 6, 10, 11, 17

\_\_\_\_\_

\_\_\_\_\_

e) 1, 2, 5, 7, 13, 21, 27, 30

f) 28, 31, 35, 38, 42, 44, 56, 60

\_\_\_\_\_

\_\_\_\_\_

g) 123, 220, 248, 475, 563

**BONUS ►** 1125, 1253, 1358, 1360, 1454, 1698

\_\_\_\_\_

\_\_\_\_\_

5. Find the highest and lowest value in the stem and leaf plot. Find the range.

a)	Stem	Leaf	
	2	2 7	Highest value: _____
	3	4 4 6	Lowest value: _____
	4	1 7	

Range: \_\_\_\_\_ - \_\_\_\_\_ = \_\_\_\_\_

b)	Stem	Leaf	
	0	2 7	Highest value: _____
	1	3 3 4 8	Lowest value: _____
	2	0 1 2 4	

Range: \_\_\_\_\_ - \_\_\_\_\_ = \_\_\_\_\_

c)	Stem	Leaf	
	8	5 6 7 9	Highest value: _____
	9	0 1 2 2 2 2	Lowest value: _____
	10	6	

Range: \_\_\_\_\_ - \_\_\_\_\_ = \_\_\_\_\_

d)	Stem	Leaf	
	9	1 2 3 8	Highest value: _____
	10	2 2 3 4 5 5	Lowest value: _____
	11	0 1 2	

Range: \_\_\_\_\_ - \_\_\_\_\_ = \_\_\_\_\_

Neka finds the median from a stem and leaf plot by crossing out the leaves of the highest and lowest values until only one or two leaves remain.

Stem	Leaf		Stem	Leaf		Stem	Leaf
2	5		2	<del>5</del>	→	2	<del>5</del>
3	6 7 9	→	3	6 7 9	→	3	<del>6</del> 7 9
4	3 7		4	<del>3</del> 7		4	<del>3</del> 7

The median is halfway between 37 and 39. The median is 38.

6. Find the medians for the stem and leaf plots in Question 5.

a) \_\_\_\_\_      b) \_\_\_\_\_      c) \_\_\_\_\_      d) \_\_\_\_\_

The **mode** of a data set is the most common data value.

Example: The mode of 3, 7, 3, 9, 4, 7, 4, 4, 5 is 4.

A data set can have more than one mode.

Example: The modes of 2, 2, 3, 3, 3, 4, 4, 4, 4, 5, 5, 6 are 3 and 4.

7. Find the mode or modes of the stem and leaf plots in Question 5.

a) \_\_\_\_\_      b) \_\_\_\_\_      c) \_\_\_\_\_      d) \_\_\_\_\_

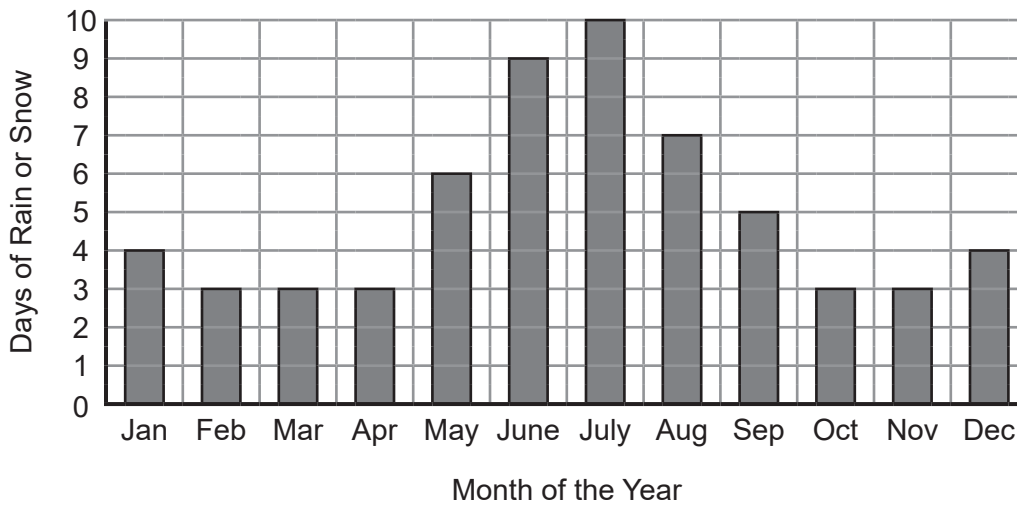
- BONUS** ▶ a) Give an example of a set of data where the mode is greater than the median. \_\_\_\_\_
- b) Give an example of a set of data where the mode is less than the median. \_\_\_\_\_



# PDM4-9 Describing Graphs

1. The graph shows the average number of days of rain or snow each month in Edmonton.

Average Number of Days of Rain or Snow in Edmonton



a) Fill in the chart from the graph.

Month	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
Days												

b) Find the range of the data.

\_\_\_\_\_

c) Find the mode of the data.

\_\_\_\_\_

d) Find the median of the data.

\_\_\_\_\_

e) Sally says that you can see from the graph that in most months of the year there are 10 days of rain or snow. Is she correct? Explain.

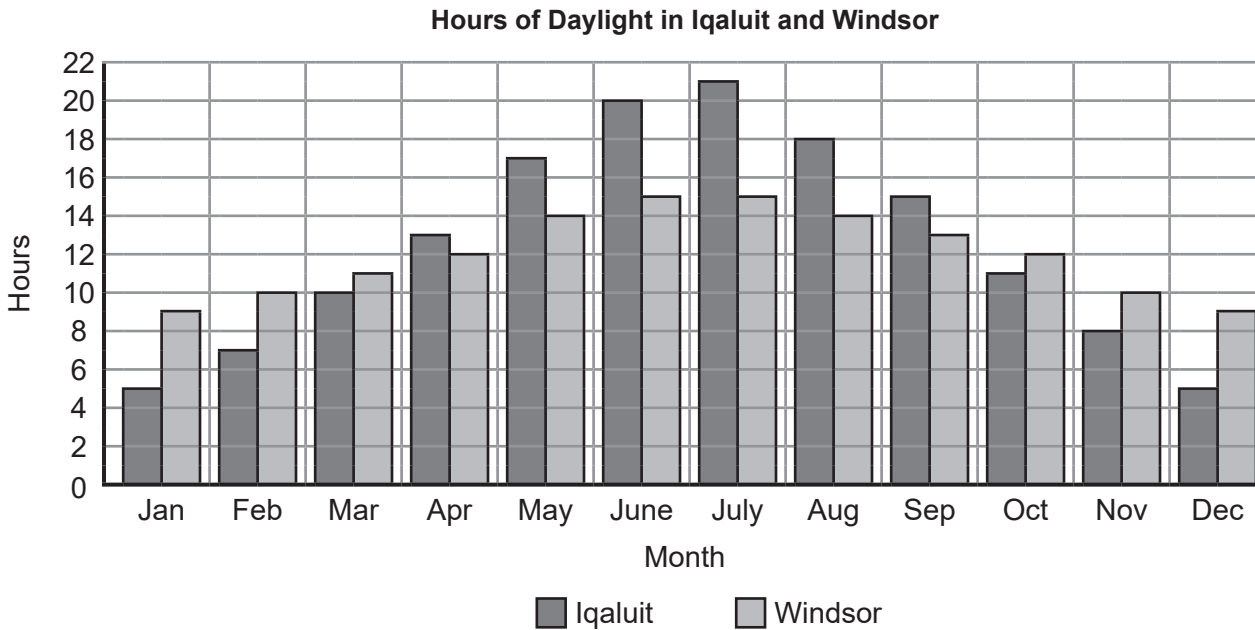
\_\_\_\_\_  
 \_\_\_\_\_

f) Which season has the most rain or snow? \_\_\_\_\_

**BONUS** ► Jane says that Edmonton usually has about 3 days of rain or snow per month. David says that Edmonton usually has about 4 days of rain per month. Explain why they are both correct.

\_\_\_\_\_  
 \_\_\_\_\_

2. The graph compares hours of daylight in Iqaluit and Windsor.



a) Make a stem and leaf plot for the data.

i) Daylight hours in Iqaluit

ii) Daylight hours in Windsor

Stem	Leaf	→	Stem	Leaf	→	Stem	Leaf	→	Stem	Leaf

b) Find the range in daylight hours in Iqaluit. \_\_\_\_\_ - \_\_\_\_\_ = \_\_\_\_\_

c) Find the range in daylight hours in Windsor. \_\_\_\_\_ - \_\_\_\_\_ = \_\_\_\_\_

d) What is the median number of daylight hours in Iqaluit? \_\_\_\_\_

e) What is the median number of daylight hours in Windsor? \_\_\_\_\_

3. Use the graph and your work in Question 2 to answer the question.

a) What is the same about daylight hours in Iqaluit and Windsor and what is different?

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b) Name one thing you would like and one thing you wouldn't like about living in Iqaluit and in Windsor.

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