







Sample Problem – Bar Graphs

The 2001 Canadian census data listed the following approximate populations of various cities, to the nearest thousand.

POPULATION OF CANADIAN CITIES, 2001

City	Vancouver	Calgary	Victoria	Edmonton	Saskatoon	Winnipeg	Regina	
Population (in thousands)	1987	951	312	938	197	671	193	

a) Graph the data on a bar graph.

b) Is there a general trend in the data?



Sample Problem – Bar Graphs

Roger is a real estate agent in Red Deer, Alberta. The graph below compares the average house prices of new single-family homes and resale (not new) single-family homes.

- a) What was the average price of a new single-family home in 2005?
- b) Between what years was there a drop in the price of resale singlefamily homes?
- c) What is the general trend in the differences in prices (which cost more/less) of the two types of units? In which years was this not so?

Single-family House Prices in Red Deer, Alberta, 2002–2009 **Resale homes** New homes 400 378 355 350 330 Average price (in thousands) (\$) 295 300 289 240 219 219 194 200 172 175 175 100 0 2002 2003 2004 2005 2006 2007 2008 2009 Year





Sample Problem – Histograms Number of Arrivals Scheduled, Calgary International Airport The histogram below shows the number of airplanes scheduled to 12 arrive at the Calgary International 10 Airport on a particular day. Airplanes scheduled to land How many airplanes are a) 8 scheduled to arrive between 2:00 pm and 3:00 pm? 6 b) What are the busiest times at the airport? How many 4 airplanes are scheduled to arrive at these times? 2 c) What is the quietest time? Are any airplanes scheduled to d) 0 arrive between 4:00 am and 5:00 am? Time

Isabella works as a server at a busy restaurant. She kept track of the amount of money she received in tips per table. Draw a histogram to represent the tips she received. What is more obvious from the histo than in the table below?AmountLess than \$2.00\$2.00-\$3.99\$4.00-\$5.99\$6.00-\$7.99\$8.00-\$9.99OveNumber of12623542)										
amount of money she received in tips per table. Draw a histogram to represent the tips she received. What is more obvious from the histo than in the table below?AmountLess than \$2.00\$2.00-\$3.99\$4.00-\$5.99\$6.00-\$7.99\$8.00-\$9.99Ove 2 Number of12623542)										
represent the tips she received. What is more obvious from the histor than in the table below?AmountLess than \$2.00\$2.00-\$3.99\$4.00-\$5.99\$6.00-\$7.99\$8.00-\$9.99 Ove Number of12623542											
Amount Less than \$2.00 \$2.00-\$3.99 \$4.00-\$5.99 \$6.00-\$7.99 \$8.00-\$9.99 Ove Number of 12 6 23 5 4 2	represent the tips she received. What is more obvious from the histogram										
Amount Less than \$2.00 \$2.00-\$3.99 \$4.00-\$5.99 \$6.00-\$7.99 \$8.00-\$9.99 Ove Number of 12 6 23 5 4 2	than in the table below?										
Amount Less than \$2.00 \$2.00-\$3.99 \$4.00-\$5.99 \$6.00-\$7.99 \$8.00-\$9.99 Ove Number of 12 6 23 5 4 2											
Number of 12 6 23 5 4 2	r \$10.0										
tables											







Sample Problem – Circle Graphs

Jasmine surveyed students at her college to find out how they commute to school. The results are shown in the table below. Create a circle graph of the data.

SURVEY RESULTS: MODE OF TRANSPORTATION TO SCHOOL										
Means of travel	Car (alone)	Carpool	Motorbike	Bus	Bicycle	Walk				
Number of people	75	20	5	75	10	15				