

Name: _____

Math Assignment – Census at School

Monday, November 25

1. Determine whether or not a relationship exists between someone's arm span and someone's height by plotting the following values on a scatter plot. Does a relationship exist between arm span and height?

Height in cm	170	165	159.5	160	161.5	146	173	163.5	165.5	174	163	163	174	163
Arm span in cm	92	148	159	165	159.5	161	160	160.5	168	176	156.5	163	176	156.5

What does the scatter plot tell you?

2. Grade 8 students at Balaclava School were asked "What is your favourite subject at school?" 47 students responded. Use the most suitable graph to display the following information. Justify your choice. What can you infer from the data? How does the graph show this?

Subject:	Males:	Females:
English	1	4
Art	4	5
Math	6	5
Phys. Ed.	9	4
Computers	4	0
Science	2	0
Other	3	0

3. Elementary Students

Practice	Don't Know	No	Yes
Recycling metal cans	31.8%	16.8%	51.3%
Recycling plastic	10.5%	7.2%	82.3%
Recycling paper	11.0%	10.4%	78.6%
Composting	22.7%	27.9%	49.4%
Using compact fluorescent light bulbs	28.3%	11.7%	60.1%

Secondary Students

Practice	Don't Know	No	Yes
Recycling metal cans	18.7%	20.5%	60.8%
Recycling plastic	5.2%	8.3%	86.5%
Recycling paper	6.5%	16.0%	77.5%
Composting	10.7%	43.9%	45.5%
Using compact fluorescent light bulbs	18.8%	12.7%	68.5%

Based on the above charts, what arguments can you make about the environmental practices of Canadians? Justify your arguments.

- a) Recycling of metal cans.
- b) Elementary Students compared to Secondary Students.