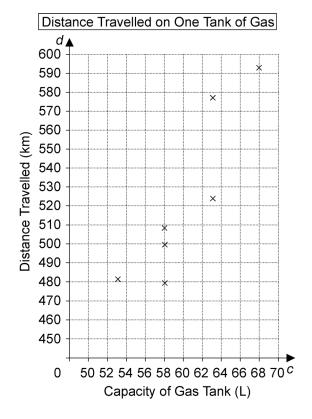
Name:	Date:	

BLM 2.3.1

Practice: Use Scatter Plots to Analyse Data

- **1.** Classify the variables in each pair as independent or dependent.
 - a) distance travelled and speed
 - **b)** quality of study and exam mark
 - c) time of year and cost of vacation
 - **d)** amount of wool needed and number of sweaters
- 2. This scatter plot shows the capacity of gas tanks and the distance travelled on one tank of gas.



- **a)** Which is the independent variable? Which is the dependent variable?
- **b)** Describe the relationship between the capacity of the gas tank and the distance travelled.

3. The table shows the heights and arm spans for a group of students:

Height (cm)	Arm Span (cm)
162	160
174	175
162	163
171	168
157	171
175	173
154	153
179	177

- a) Draw a scatter plot of the data.
- **b)** Describe the relationship between a person's height and arm span.
- c) Identify any outliers and explain how they are different from the rest of the data.
- **4.** The table shows the values of some used cars.

Value (\$1000s)	Age (years)
36	3
22	6
25	4
29	4
31	3
37	2
21	7

- a) Identify the independent variable and the dependent variable.
- **b)** Draw a scatter plot of the data in the table
- c) Describe the relationship between the age of a car and its value.
- d) Jane bought a 7-year-old car for \$28 000. Did she pay too much? Explain.