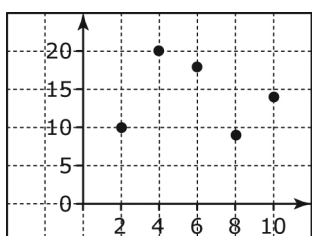# Section 2.3 Extra Practice
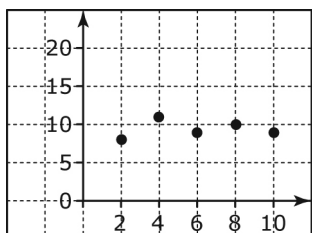
1. Match the trend to the scatter plot.
 i) As one variable increases, so does the other.
 ii) One variable increases as the other one decreases.
 iii) One variable increases as the other one remains constant.
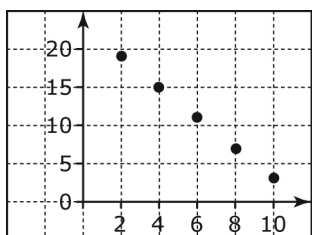 **iv)** There is no trend.

a)

b)

c)

d)

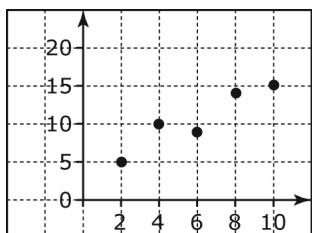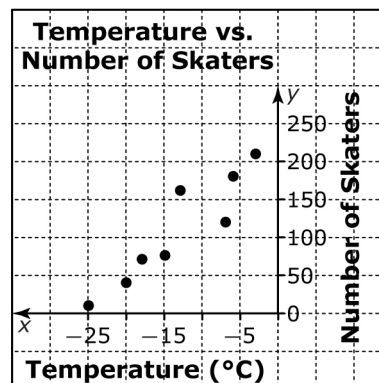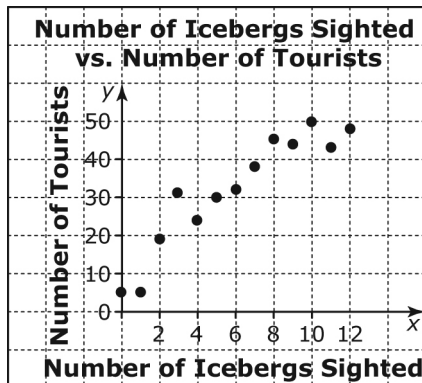**2.** Describe a scatter plot that represents time in minutes (independent variable) and the temperature of a cup of coffee (dependent variable).

3. Describe a scatter plot that represents the litres of gasoline pumped (independent variable) and the cost to fill a tank (dependent variable).

4. Describe a scatter plot that represents the age of a student and the amount of money in her bank account.

5. The scatter plot compares the daily high temperature in degrees Celsius (°C) to the number of skaters over the winter.

a) What happens to the number of skaters as the temperature increases?
b) At what temperatures does the park not need to maintain the outdoor skating rink?

6. The scatter plot represents a
comparison of the number of
icebergs sighted in a week and
the number of tourists who visit
the chalet.

Number of Icebergs Sighted vs. Number of Tourists

Number of Tourists (y-axis): 0, 10, 20, 30, 40, 50

Number of Icebergs Sighted (x-axis): 2, 4, 6, 8, 10, 12

a) Describe the trend
represented by the graph.

b) If there are 10 icebergs
predicted in the following
week, about how many tourists
should the chalet expect?

c) How many icebergs would
bring over 50 visitors to
the chalet?

d) Make a prediction about the
number of tourists that would
visit the chalet during a week
when 15 icebergs are sighted.
Justify your prediction.