



# Warm Up

Date: Feb 19

Ch. 7 Lesson 5

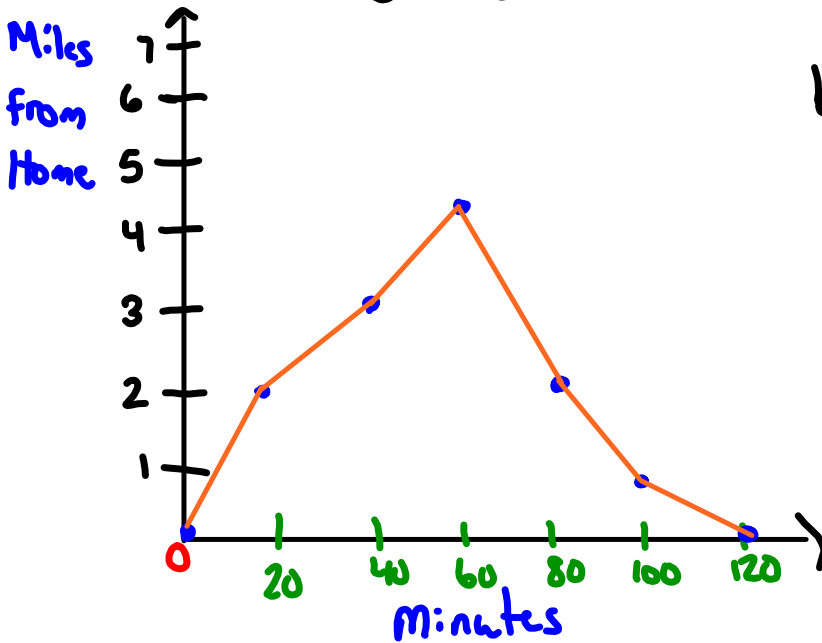
day 1

Minutes	Miles from home
0	0
20	2
40	3
60	4
80	2
100	1
120	0

1) Josh went on a bike trip. This table shoes the distance travelled for the first 120 minutes.

- a) Draw a graph to display the data.
- b) Did you join the points? Explain
- c) Write two things you know from the graph

Josh's Bike Trip



b) We can join the point since we can have half a minute and part of Miles.

c) Josh was 4 miles from home (this is his furthest distance from home)

Josh was 120 min biking  
at 60 min in he turned to come home.



SOLUTIONS

# Warm Up

Date: \_\_\_\_\_

Ch. 7 Lesson 5

day 1

1) Josh went on a bike trip. This table shows the distance travelled for the first 120 minutes.

Minutes	Miles from home
0	0
20	2
40	3
60	4
80	2
100	1
120	0

- a) Draw a graph to display the data.
- b) Did you join the points? Explain
- c) Write two things you know from the graph

a)



b) I joined the points since Josh can bike part of a distance in part of a time.c

c) He travelled a distance of 4 miles then turned to make his way home

He travelled for a total of 120 minutes

**Practice**

**Homework Solutions**

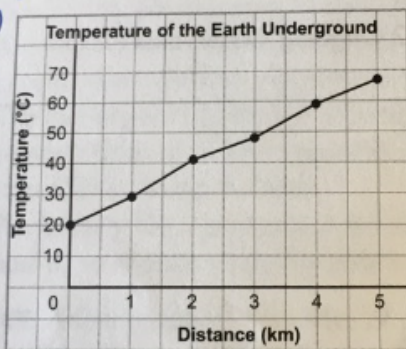
You will need grid paper.

1. Miners drill a hole in the earth's surface. They measure the temperature of the earth at intervals of 1 km. This table shows the data they collected.
  - a) Draw a graph to display these data.
  - b) Did you join the points? Explain.
  - c) Write 2 things you know from the graph.

Distance (km)	Temperature (°C)
0	20
1	29
2	41
3	48
4	59
5	67

**Sample Solutions**

1. a)



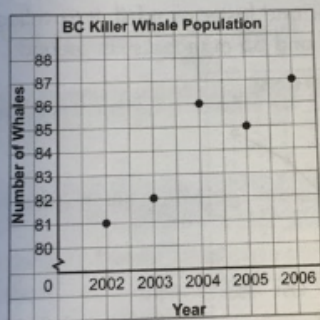
- b) Yes, both distance and temperature are continuous.
- c) As you dig deeper, the temperature of the earth rises. The temperature at the surface of the earth is 20°C.

## Homework Solutions

2. The population of killer whales along the British Columbia coast is counted each year. The table shows the data for 2002 to 2006.
- Draw a graph to display these data.
  - Explain how you chose the vertical scale.
  - Did you join the points? Explain.
  - What conclusions can you make from the graph?

Year	Number of Killer Whales
2002	81
2003	82
2004	86
2005	85
2006	87

2. a)



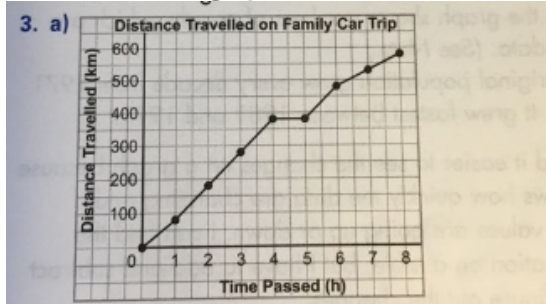
- I used a jagged line to show that the scale starts at 80, not 0. I used 1 square to represent 1 whale. I wanted to show how the numbers varied from year to year.
- No, the numbers of whales are discrete data.
- The whale population rose by 6 between 2002 and 2006. We cannot tell how many whales were born because the numbers might include whales that died.

## Homework Solutions



3. This table shows how far Rene's family travelled on a car trip to Regina.
- Draw a line graph to display these data.
  - How did you choose the scale on the vertical axis?
  - What was the distance travelled each hour from hours 2 to 4? From hours 6 to 8?
  - What do you think was happening from hour 4 to hour 5 on the trip? Explain.
  - What other conclusions can you make from the graph?

Time Passed (h)	Distance Travelled (km)
1	80
2	180
3	280
4	380
5	380
6	480
7	530
8	580



- I chose a scale of 1 square represents 50 km because the range of data was 500 km and I wanted the graph to fit on my page.
- I think the family stopped for lunch. The distance travelled does not change from hour 4 to hour 5.
- The family travelled more slowly during the last 2 h.

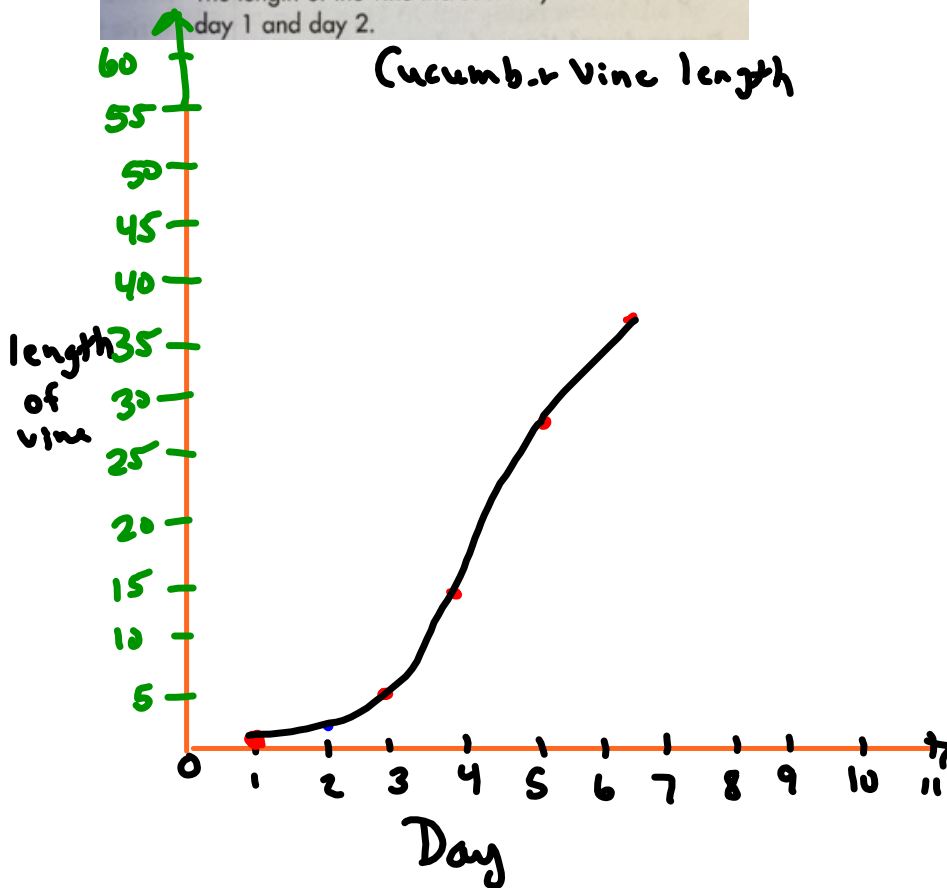
## Homework Solutions

4. Rajiv measures the length of his cucumber vine at 9:00 A.M. each day.

Day	1	2	3	4	5	6	7	8	9	10
Length of Vine (mm)	0	1	7	15	27	35	41	48	53	57

- Draw a graph to display these data.
- Did you join the points? Explain.
- Write 2 things you know from the graph.

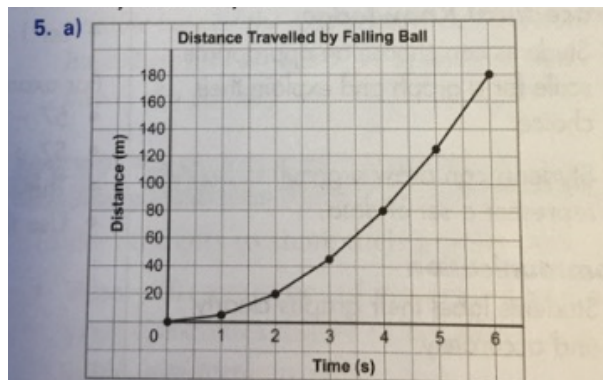
4. a) Students should draw a line graph.  
 b) Yes, length and time are continuous.  
 c) The length of the vine increased over the 10 days.  
 The length of the vine increased by 1 mm between day 1 and day 2.



## Homework Solutions

5. A ball is dropped from the top of a cliff. This table shows the distance travelled by the ball in the first 6 s.
- Draw a graph to display these data.
  - Did you join the points? Explain.
  - Write 2 things you know from the graph.

Time (s)	Distance (m)
0	0
1	5
2	20
3	45
4	80
5	125
6	180



b) Yes, both time and distance are continuous.

c) The ball travelled faster and faster as it fell. It travelled 5 m in the first second and 55 m in the sixth second.



## Homework Solutions

6. This table shows the Aboriginal population in Canada from 1971 to 2001.

Year	1971	1981	1991	2001
Population (in thousands)	313	491	1003	1320

- Draw a graph to display these data.
- Explain how you chose the scale on each axis.
- Did you join the points? Explain.
- What do you know from looking at the graph?

