

Name _____

period _____

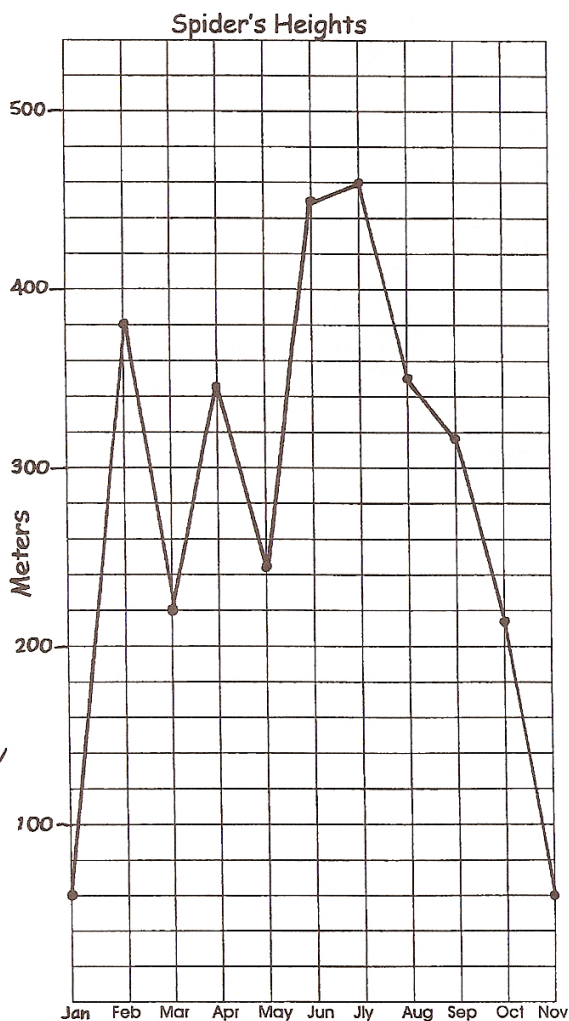
Science Skills -8

Reading Line Graphs

Who, besides a spider, could possibly climb a building that is several hundred feet tall? Some pretty adventurous climbers try such ventures often!

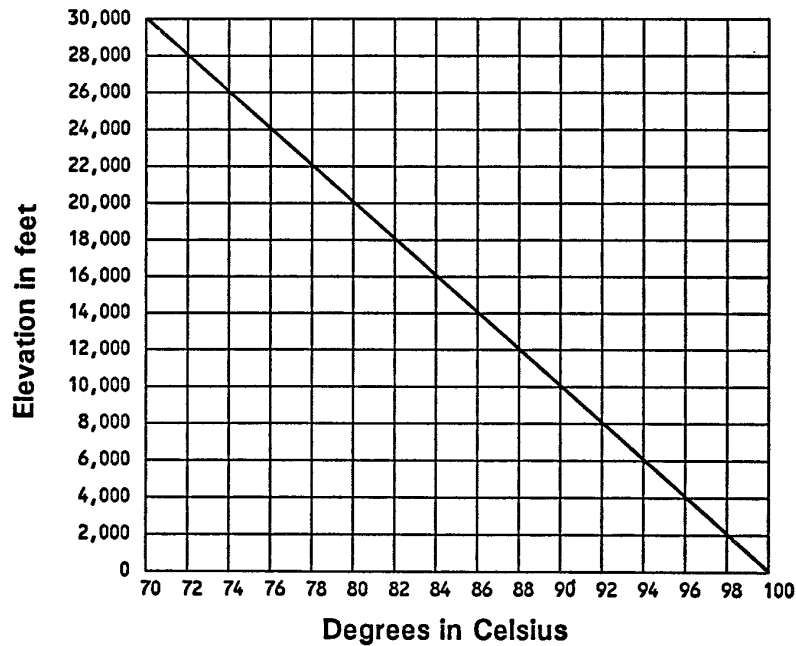
Scaling buildings is another extreme idea for fun. Read the graph to find and learn about the heights of ten different buildings Spider Samson climbed last year.

- Spider climbed the 348-meter T & C Tower in Taiwan in the month of _____.
- In July, he climbed the Shanghai World Finance Center, a height of _____.
- In _____, he traveled to Thailand to climb the 319-meter Baiyoke II Tower.
- South Africa's Carlton Center, which is _____ high, was an easy climb for Spider in March.
- In the month of _____, Spider reached the 381-meter top of the Empire State Building in New York City.
- The Petronas Tower in Malaysia, climbed in June, is about _____ high.
- Spider climbed the 347-meter John Hancock Center in Chicago in _____.
- In _____ and _____, Spider climbed two Australian Towers: the 214-meter Chifley Tower and the 242-meter Rialto Tower.
- In January and November, Spider climbed a church tower in his home town. It is _____ high.



Elevation and the Boiling Point of Water

The graph below shows the relationship between elevation and the boiling point of water. The boiling point of water is 100°C only at sea level. Circle the correct answer.



- What is the boiling point at mile-high Denver, Colorado? (1 mile = 5,280 feet)
a) 93°C b) 94°C c) 95°C d) 96°C
- Atlanta, Georgia, is situated at 1,050 feet above sea level. What is the boiling point in Atlanta?
a) 97°C b) 98°C c) 99°C d) 100°C
- The elevation of the highest mountain in the world, Mount Everest, is about 29,000 feet. At what temperature does water boil on top of Mount Everest?
a) 71°C b) 75°C c) 76°C d) 77°C
- Fill in the blanks in the following statement by using the word "increases" or "decreases."
As elevation increases, the boiling point _____, and conversely, as elevation decreases, the boiling point _____.
- As elevation changes by 1,000 feet, by how many degrees Celsius does the boiling point change?
a) 1/2 b) 1 c) 2 d) 4
- Based on your answers to the last two questions, what is the boiling point at 1,000 feet below sea level?
a) 98°C b) 99°C c) 100°C d) 101°C