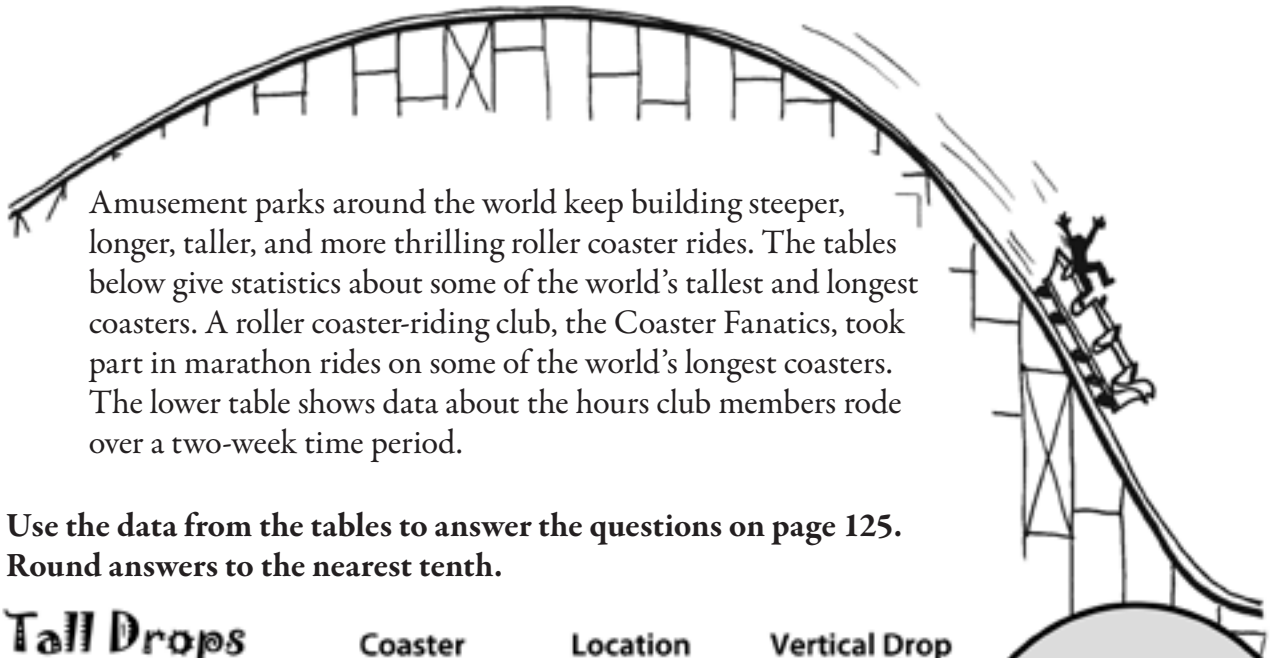


Tall Drops and Long Rides



Amusement parks around the world keep building steeper, longer, taller, and more thrilling roller coaster rides. The tables below give statistics about some of the world's tallest and longest coasters. A roller coaster-riding club, the Coaster Fanatics, took part in marathon rides on some of the world's longest coasters. The lower table shows data about the hours club members rode over a two-week time period.

Use the data from the tables to answer the questions on page 125. Round answers to the nearest tenth.

Tall Drops

Coaster	Location	Vertical Drop (meters)
Kingda Ka	Jackson, NJ, USA	127
Top Thrill Dragster	Sandusky, OH, USA	120
Superman: Escape from Krypton	Valencia, CA, USA	100
Tower of Terror	Queensland, Australia	100
Steel Dragon	Nagashima, Japan	93
Millennium Force	Sandusky, OH, USA	91
The Titan	Arlington, TX, USA	78

In 2007, American Richard Rodriguez rode a roller coaster for more than 405 hours straight to set a world record. (He was allowed a 5-minute break each hour.)

Long Coasters and Long Rides (by the Coaster Fanatics)

Coaster	Location	Length (meters)	Hours of Riding
Ultimate	Yorkshire, UK	2,268	450
The Beast	Mason, OH, USA	2,243	420
Formula Rossa	Abu Dhabi, UAE	2,200	375
Fujiyama	Yamanashi, Japan	2,045	405
Millennium Force	Sandusky, OH, USA	2,010	390
Voyage	Santa Claus, IN, USA	1,964	355
Vertigorama	Buenos Aires, Argentina	1,816	355

Name: _____

Date: _____

Class: _____

TALL DROPS AND LONG RIDES, continued

Use the data from the tables on page 124 to answer the questions.
Round answers to the nearest whole number.

1. What is the median of the vertical drops?
2. What is the mode of the vertical drops?
3. About how far does the drop of *The Titan* vary from the mean?
4. About how far does the mean (of the vertical drops) vary from the mode and median?
5. What is the range of vertical drops?
6. What is the median of the length of coaster rides? (See bottom table.)
7. How far does the length of the *Voyage* ride vary from the mean of all the coaster lengths?
Circle one: a. less than 25 m b. about 85 m c. more than 100 m
8. How far does the length of the *Ultimate* ride vary from the mean of all the coaster lengths?
Circle one: a. less than 25 m b. about 100 c. about 200 m



9. What is the range of hours ridden by members of the Coaster Fanatics Club?
10. What is the mean of the hours ridden? (Round to the nearest tenth.)
11. What is the frequency of a number of hours greater than 400?
12. How far does the statistic on hours ridden on *Formula Rossa* vary from the median?
13. Is the mode the best measure of central tendency to describe the center of the data for hours ridden on the coasters? Explain your answer.