1. Denver's elevation is 1 mile (5280 feet). The elevation of Loveland Pass, 70 miles west of Denver, is 11,990 feet. What is the average slope of the land from Denver to Loveland Pass?

2. In 1990, about 13.8 million students were enrolled in U.S. colleges. In 2000, about 14.9 million students were projected to be enrolled in U.S. colleges. Find the average rate of change in the number of students per year.

3. In 1995 a public library had 16,000 books on its shelved. In 1999 the library had 19,000 books. Find the average rate of change in the number of books per year.

4. The Eisenhower Tunnel in Colorado was completed in 1973 and is the fourth longest road tunnel in the United States. The eastern entrance of the Eisenhower Tunnel is at an elevation of 11,080 feet. The tunnel is 8941 feet long and has an upgrade of 8.95% toward the western end. What is the elevation of the western end of the tunnel?
5. The table shows the number of home runs in major league baseball from 1990 to 1996.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Home Runs</td>
<td>3317</td>
<td>3383</td>
<td>3038</td>
<td>4030</td>
<td>3306</td>
<td>4081</td>
<td>4962</td>
</tr>
</tbody>
</table>

a. Calculate the average yearly rate of change in home runs hit from 1990 to 1992.

b. Calculate the average yearly rate of change in home runs hit from 1992 to 1994.

c. Calculate the average yearly rate of change in home runs hit from 1994 to 1996.

d. Calculate the average yearly rate of change in home runs hit from 1990 to 1996.

e. Write a sentence comparing the results from a - c to the average yearly rate of change found in d.