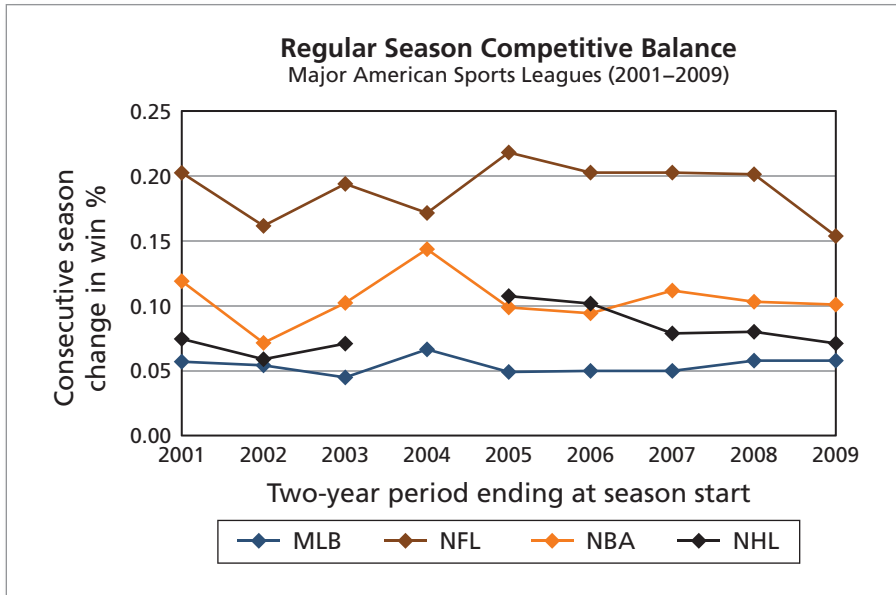## 10.3–10.4 Quiz

Competitive Balance The chart shows the average absolute change in win percentage for all the teams in a league for each season shown. For instance, the value for the NBA in 2007 is based on the average absolute change in win percentages between the 2006–2007 season and the 2007–2008 season. In Exercises 1–4, use the chart.

Regular Season Competitive Balance
Major American Sports Leagues (2001–2009)

Consecutive season change in win %

Two-year period ending at season start

— MLB — NFL — NBA — NHL

1. Identify and estimate any missing data points.

2. Which major sports league has the most competitive balance? Explain your reasoning.

3. In the 2009–2010 season, an NBA team won 50 out of 82 games. How many games would you expect the team to win in the 2010–2011 season?

4. Do you agree with the following comment? Use the chart to explain your reasoning.

COMMENT:

Bad baseball teams remain bad more often than bad football teams.

Frostbite In Exercises 5–8, use the chart to identify the frostbite risk for each activity.

5. Camping in −15°F weather with a 20 mph wind

6. Hiking in 0°F weather with a 5 mph wind

7. Skiing in −30°F weather with a 25 mph wind

8. Climbing in −25°F weather with a 10 mph wind

Wind Speed (mph)
0 10 20 30 40

30°F

20°F

10°F

0°F

−10°F

−20°F

−30°F

−40°F

−50°F

Little danger (caution)
Freezes exposed flesh within 1 hour

Danger
Freezes exposed flesh within 1 minute

Extreme danger
Freezes exposed flesh within 30 seconds