

4.1–4.2 Quiz

Write and solve an equation to answer the question. (Section 4.1)

1. What number is 28% of 75?
2. 42 is 21% of what number?
3. 36 is what percent of 45?
4. What number is 68% of 12?
5. 66 is what percent of 55?

Identify the percent of change as an *increase* or *decrease*. Then find the percent of change. Round to the nearest tenth of a percent, if necessary. (Section 4.2)

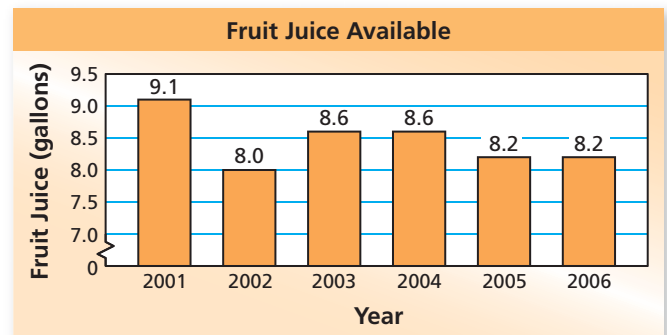
6. 8 inches to 24 inches
7. 300 miles to 210 miles
8. \$42.00 to \$16.00
9. 32 points to 46 points
10. 185 pounds to 153 pounds
11. 35 people to 70 people



12. **TEXT MESSAGES** You have 44 text messages in your inbox. How many messages can your cell phone hold? (Section 4.1)
13. **COMPLETIONS** A quarterback completed 68% of his passes in a game. He threw 25 passes. How many passes did the quarterback complete? (Section 4.1)
14. **QUIZ** You answered 14 questions correctly on a 15-question quiz. What percent did you receive on the quiz? Round to the nearest hundredth. (Section 4.1)

15. **FRUIT JUICE** The graph shows the amount of fruit juice available per person in the United States during a six-year period. (Section 4.2)

- a. What is the percent of change from 2002 to 2005?
- b. What is the percent of change from 2002 to 2003?



16. **CAR** A car loses 15% of its original value each year. After one year, a car has a value of \$13,600. What is the original value of the car? (Section 4.2)