Name Date

Practice A

6.3

Use a model to estimate the answer to the question. Use a ratio table to check your answer.

1. What number is 20% of 40? 2. 12 is what percent of 50?

3. 42 is 60% of what number? 4. What number is 150% of 92?

Write and solve a proportion to answer the question.

5. 40% of what number is 15? 6. 24 is 0.6% of what number?

7. What percent of 75 is 27? 8. 17 is what percent of 68?

9. Of the 60 seeds that you plant, 80% germinate. How many seeds germinate?

10. You are charged 6% sales tax. You purchase a new bicycle and pay $27 in sales tax. What is the purchase price of the bicycle?

Write and solve a proportion to answer the question.

11. 0.2 is what percent of 16?

12. 19.6 is 24.5% of what number?

13.  is 30% of what number?

14. What number is 45% of 

15. You are making 28 name badges for a committee. You complete 75% of these on Monday. How many do you have left to complete on Tuesday?

16. You and your friend are selling tickets for the orchestra concert. On Thursday, you sold 15 tickets and your friend sold 10 tickets.

a. What percent of the tickets sold on Thursday did you sell?

b. On Friday, you sold 9 tickets and your friend sold 16 tickets. What percent of the tickets sold on Friday did you sell?

c. What percent of the total tickets sold on Thursday and Friday did   
you sell?

Name Date

Practice B

6.3

Write and solve a proportion to answer the question.

1. 55% of what number is 33? 2. What percent of 120 is 42?

3. 36 is 0.8% of what number? 4. 48 is what percent of 64?

5. Of the 360 runners at a 5-kilometer race, 20% are in the 35–39 age bracket. How many runners at the 5-kilometer race are in the 35–39 age bracket?

6. You pay $3.69 for a gallon of gasoline. This is 90% of the price of a   
gallon of gasoline one year ago. What was the price of a gallon of   
gasoline one year ago?

7. Describe and correct the error   
in using the percent proportion   
to answer the question below.



“6 is 6.25% of what number?”

Write and solve a proportion to answer the question.

8.  is 70% of what number?

9. 7.2 is 250% of what number?

10. What number is 72% of 

11. 1.4 is what percent of 1.12?

12. You earn a score of 86.8 on a standardized exam. Your score is   
140% higher than your friend's score on the standardized exam.   
What is your friend's score?

13. 80% of a number is *x*. What is 40% of the number?

14. Answer each question.

a. What is 35% of 90*x*?

b. What percent of 16*x* is 9*x*?