Name Date

Answers

 1.

 2.

 3.

 4.

 5.

 6.

 7.

 8.

 9.

 10.

 11.

 12.

 13.

 14.

 15.

 16.

Take Home Quiz #2

For use after Section 6.7

Chapter

6

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

 1. 120 pounds to 180 pounds 2. 10 feet to 8 feet

 3. 400 meters to 350 meters 4. 12 gallons to 36 gallons

 5. You estimate that a small restaurant will serve 430 customers
the first week it is open. The actual number of customers the
first week is 400. Find the percent error.

Find the original price, discount, sale price, or selling price.

 6. Original price: $130 7. Original price: $32
Discount: 60% Discount: ?
Sale price: ? Sale price: $8

 8. Original price: ? 9. Cost to store: $45
Discount: 20% Markup: 35%
Sale price: $14.40 Selling price: ?

An account earns simple interest. Find the interest earned,
principal, interest rate, or time.

 10. Interest earned: ? 11. Interest earned: $10
Principal: $1450 Principal: $250
Interest rate: 9% Interest rate: 4%
Time: 5 years Time: ?

 12. Interest earned: $40 13. Interest earned: $45
Principal: $400 Principal: ?
Interest rate: ? Interest rate: 3%
Time: 2 years Time: 2 years

 14. Store A sells a watch for $50 and offers a 5% discount. Store B sells
the same watch for $60 and offers a 20% discount. From which store should you buy?

 15. A store sells a television for $1000. Customers can choose to receive a 10% discount and pay it off with a loan at a simple interest rate of 4%, or they can choose to pay the full price and pay it off in 3 years with no interest. If the customer plans to pay it off in 3 years, which option is better?

 16. A store offers a loan for $900 to buy a computer. The terms of the loan are for 9% simple interest and equal monthly payments for
three years. What is the monthly payment?