Name _____ Date_____

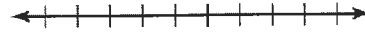**Write the percent as a decimal.**

1. 73%

2. 32.3%

3. 121.6%

Write the decimal as a percent.

4. 0.65

5. 1.35

6. 0.003

Use a number line to order the numbers from least to greatest.

7. $74\%, \dfrac{3}{4}, 0.76$

8. $26.2, 262\%, 2\dfrac{3}{5}$

9. The table shows the scores for three students on a math test. Who earned the highest grade?

Student	Score
Jim	$\dfrac{17}{20}$
Sarah	84%
Ben	0.86

Write and solve a proportion to answer the question.

10. What number is 80% of 65?

11. 32 is what percent of 200?

Write and solve an equation to answer the question.

12. 125 is what percent of 200?

13. 45 is 90% of what number?

14. You earned a 90% on a science test. You answered 18 questions correctly. How many questions were on the test?

15. The table shows the percentage of total athletes at a school that play certain sports. Each athlete only plays one sport. Twenty athletes play baseball. How many athletes are there at the school?

Sport	Baseball	Football	Other
Percentage	?%	30%	45%

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. ___See left.___

8. ___See left.___

9. _____

10. _____

_____

11. _____

_____

12. _____

_____

13. _____

_____

14. _____

15. _____

<table>
<tr><td>Chapter
6</td><td>Take Home Quiz #2
For use after Section 6.7</td></tr>
</table>

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
   Discount: 60%
   Sale price: ?

7. Original price: $32
   Discount: ?
   Sale price: $8

8. Original price: ?
   Discount: 20%
   Sale price: $14.40

9. Cost to store: $45
   Markup: 35%
   Selling price: ?

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

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

11. Interest earned: $10
    Principal: $250
    Interest rate: 4%
    Time: ?

12. Interest earned: $40
    Principal: $400
    Interest rate: ?
    Time: 2 years

13. Interest earned: $45
    Principal: ?
    Interest rate: 3%
    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?

Answers

1. _____

   _____

2. _____

   _____

3. _____

   _____

4. _____

   _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

15. _____

16. _____