

Chapter 6

Test A

Write the percent as a decimal.

1. 66.7%
2. 0.1%
3. Thursday afternoon between 4:00 and 5:00 you spend $\frac{1}{4}$ of the hour reading email, 0.4 hour doing homework, and 35% of the hour doing chores. Write the tasks in order from least amount of time to greatest.

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

In Exercises 4–6, use the table that shows the results of a class poll.

Question	Yes	No
Do you walk to school?	18%	82%
Is there a pet in your home?	$\frac{14}{25}$	$\frac{11}{25}$
Do you play on a sports team?	0.42	0.58

4. Which category in the table shows the least portion of the class?
5. Which is less, the number of students with a pet or the number who play on a sports team?
6. $\frac{11}{50}$ of the students live within $\frac{1}{2}$ mile of the school. Is this greater than or less than the portion of students who walk to school?

Write and solve a proportion to answer the question.

7. 35% of what number is 21?
8. 70 is what percent of 56?

Write and solve an equation to answer the question.

9. 17 is what percent of 68?
10. What number is 16% of 80?

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.

11. 15 books to 21 books
12. 60 cars to 24 cars

Use the percent of change to find the new amount.

13. \$84 increased by 12%
14. 820 brushes decreased by 25%

Chapter 6 **Test A** (continued)

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

- 15. Original price: \$82
Discount: 10%
Sale price: ?
- 16. Original price: \$125
Discount: ?
Sale price: \$81.25
- 17. Original price: ?
Discount: 36%
Sale price: \$32
- 18. Cost to store: \$32
Markup: 16%
Selling price: ?

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

- 19. Interest earned: \$84
Principal: \$600
Interest rate: 7%
Time: ?
- 20. Interest earned: ?
Principal: \$1250
Interest rate: 3%
Time: 4 years
- 21. Interest earned: \$39.60
Principal: ?
Interest rate: 11%
Time: 6 months
- 22. Interest earned: \$3250
Principal: \$5000
Interest rate: ?
Time: 10 years

An account earns annual simple interest. Find the balance of the account.

- 23. \$250 at 4% for 1 year
- 24. \$2000 at 9% for 6 months

- 25. The percent of sales tax is 6%. What is the sales tax on a skateboard that costs \$98?
- 26. The price of your favorite brand of jeans was \$35 last month. This month the price is \$42. What is the percent of change from last month to this month?
- 27. You are shopping for a cell phone. At which store should you buy the cell phone? Explain your answer.

Store	Original Price	Discount
A	\$129	30%
B	\$135	35%
C	\$150	40%

- 28. You deposit \$200 in an account earning 3.5% simple interest. How long will it take for the balance of the account to be \$221?

Answers

- 15. _____
- 16. _____
- 17. _____
- 18. _____
- 19. _____
- 20. _____
- 21. _____
- 22. _____
- 23. _____
- 24. _____
- 25. _____
- 26. _____
- 27. See left.
- 28. _____