

Name _____

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

Round the decimal to the given place value.

1) 32.0912, nearest hundredth 1) _____

2) 53.123498, nearest ten-thousandth 2) _____

Round the money amount to the nearest cent or dollar as indicated.

3) \$0.4341, nearest cent 3) _____

Write the decimal in numbers.

4) Twelve and two hundred sixteen ten-thousandths 4) _____

5) Seventeen and eight hundred eighty-six thousandths 5) _____

Write the decimal as a fraction or mixed number in simplest form.

6) 36.154 6) _____

7) 0.46 7) _____

Write the decimal number in words.

8) 9.00895 8) _____

Write the fraction as a decimal.

9) $\frac{511}{10}$ 9) _____

Find the quotient rounded to the nearest tenth:

10) $4.96 \div 3.5$ 10) _____

Solve the following equation

11) $x + 168.3 = 165 - 13.57$ 11) _____

Find the unit price and decide which is the better buy. Round to three decimal places. Assume that we are comparing different sizes of the same brand.

12) Soy Sauce: 12) _____
 \$2.14 for 6 ounces
 \$2.80 for 8 ounces

13) _____
The sale price of a new laptop is \$654.03 and the tax is figured at 0.08 times the price. What is the total amount paid for the laptop ?

14) _____
If a car travels 357 miles on 14 gallons of gas, how many miles per gallon does it average (round to the nearest tenth)?

15) _____
To buy a car you can pay \$25,000 cash or put down \$6500 and make 24 monthly payments of \$895.06. How much you save by paying cash?

Evaluate the expression for the given replacement values.

16) $5x^3 + 3xy - 3.57$ for $x = 1.2$, $y = 3.4$ _____

17) A credit card company charges 0.07% interest per day. _____
a) What is the interest rate in decimal form?
b) What is the annual rate of interest for this credit card? (use the business year of 360 days per year)

18) _____
Find the two integers closest to $\sqrt{87}$

19)

A man weighed 256 pounds. He lost 37 pounds in 6 months. Then he gained 40 pounds 8 months later.

19) _____

- a) What percent of his weight did he lose in the first 6 months? Round your answer to the nearest hundredths if necessary.

- b) After his initial weight loss, what percent of his weight did he gain? Round your answer to the nearest hundredths if necessary.

20)

A real estate agent works on a 12% commission. What is his commission on a house that he sold for \$357,900? Round your answer to the nearest cent if necessary.

20) _____

Write the percent as a decimal.

21) 6.6%

21) _____

22) 44.55%

22) _____

23) $61\frac{3}{10}\%$

23) _____

Write the decimal as a percent.

24) 0.8077

24) _____

25) 4.2

25) _____

Write the percent as a fraction or mixed number in simplest form.

26) $46\frac{7}{8}\%$

26) _____

27) 32%

27) _____

Write the fraction or mixed number as a percent.

28) $\frac{67}{90}$

28) _____

29) $\frac{3}{8}$

29) _____

Solve.

30) $5(x + 5.1) = 9x + 15.9$

30) _____

Answer Key
Chapter 3 Test

- 1) 32.09
- 2) 53.1235
- 3) \$0.43
- 4) 12.0216
- 5) 17.886

6) $36\frac{77}{500}$

7) $\frac{23}{50}$

8) nine and eight hundred ninety -five hundred-thousandths

9) 51.1

10) 1.4

11) -16.87

12) 8 oz

13) \$706.35

14) 25.5

15) 2981.44

16) -1

17) a) 0.0007 b) 0.252

18) 9 and 10

19) a) 14.45% b) 18.26%

20) 42.948

21) 0.066

22) 0.4455

23) 0.613

24) 80.77%

25) 420%

26) $\frac{15}{32}$

27) $\frac{8}{25}$

28) $74\frac{4}{9}\%$

29) $37\frac{1}{2}\%$

30) 2.4