

Name _____

Tests from past semesters are provided as a study preparation tool. As tests are created by different instructors, problems on current tests may differ. Sample tests are a good beginning point in your test preparation but it is recommended that you don't use sample tests as your only study resource.

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Write the decimal as a percent.

1) In a large city, 0.768 of the budget went toward city workers' salaries. 1) _____

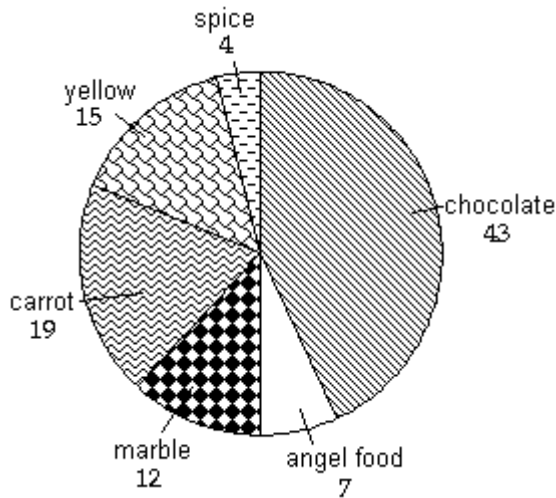
- A) 0.768% B) 0.0768% C) 768% D) 76.8%

Write the percent as a decimal.

2) 44% of students at a small college lived at home while attending classes. 2) _____

- A) 44.0 B) 4.4 C) 0.44 D) 0.044

A group of 100 adults were asked what type of cake was their favorite. The circle graph shows the results.



3) What percent preferred spice cake? 3) _____

- A) $\frac{1}{4}\%$ B) $\frac{1}{25}\%$ C) $\frac{25}{4}\%$ D) 4%

Solve.

4) 75% of 48 is what number? 4) _____

- A) 360 B) 4 C) 36 D) 6.4

Translate the question into a proportion. Do not solve.

5) 329 is 56% of what number?

5) _____

A) $\frac{329}{b} = \frac{56}{100}$

B) $\frac{56}{b} = \frac{329}{100}$

C) $\frac{a}{329} = \frac{56}{100}$

D) $\frac{56}{329} = \frac{p}{100}$

Solve.

6) The Powell family paid 13% of the purchase price of a \$164,000 home as a down payment. Determine the amount of the down payment.

6) _____

A) \$213

B) \$21,320

C) \$2132

D) \$12,615

7) A union contract calls for a 6.8% salary increase for all employees. Determine the increase that a worker currently making \$38,190 under this contract can expect.

7) _____

A) \$35,593.08

B) \$25,969.20

C) \$40,786.92

D) \$2596.92

Solve. Round the answer to the nearest cent, if necessary.

8) Last year the profit for a company was \$518,000. This year's profit decreased by 6.9%. Find this year's profit.

8) _____

A) \$482,258

B) \$160,580

C) \$357,420

D) \$35,742

Convert.

9) 5.8 cm to millimeters

9) _____

A) 0.058 mm

B) 580 mm

C) 0.58 mm

D) 58 mm

Convert as indicated.

10) 513 g to milligrams

10) _____

A) 51,300 milligrams

B) 513,000 milligrams

C) 0.513 milligrams

D) 0.0513 milligrams

11) 75 ft to yards

11) _____

A) 2700 yd

B) 25 yd

C) $8\frac{1}{3}$ yd

D) 225 yd

12) 832 oz to pounds

12) _____

A) 208 lb

B) 53 lb

C) 52 lb

D) 83 lb

Convert as indicated. If necessary, round to two decimal places.

13) 14.5 liters to gallons

13) _____

A) 13.78 gal

B) 15.37 gal

C) 54.96 gal

D) 3.77 gal

Convert as indicated. Round to the nearest tenth of a degree, if necessary.

14) Mario is planning what to wear on a hiking trip tomorrow. A weather forecast predicts a high temperature of 89°F in the area which he will be visiting. Find this temperature in degrees Celsius.

14) _____

A) 192.2°C

B) 17.4°C

C) 31.7°C

D) 128.2°C

Solve.

15) A mountain in the Great Smoky Mountains National Park has an elevation of 5128 feet above sea level. A gap in the Atlantic Ocean has an elevation of 24,456 feet below sea level. Represent the difference in elevation between these two points.

15) _____

A) 19,328 ft

B) 29,584 ft

C) 14,200 ft

D) 34,712 ft

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

Perform the indicated operation.

16) $7.82 \text{ g} + 244 \text{ mg}$

16) _____

Solve. Round to the nearest tenth, if necessary.

17) In the past ten years, the population of a city decreased from 165,000 to 150,000. Find the percent decrease.

17) _____

Find the total amount in the compound interest account.

18) \$7000 is compounded quarterly at a rate of 13% for 20 years. (The compound interest factor is 12.91828.)

18) _____

Solve. Remember to insert units when writing your answer.

19) A company wishes to ship 6 boxes of their product, each box weighing 5 lb 3 oz. What is the total weight of 6 boxes?

19) _____

Solve.

20) Frank burns 290 calories each hour while running. How many calories does he use if he runs 1 hour per day for 6 days?

20) _____

Answer Key

Testname: MATH 70 TEST 3

- 1) D
- 2) C
- 3) D
- 4) C
- 5) A
- 6) B
- 7) D
- 8) A
- 9) D
- 10) B
- 11) B
- 12) C
- 13) D
- 14) C
- 15) B
- 16) 8.064 g
- 17) 9.1%
- 18) \$90,427.96
- 19) 31 lb 2 oz
- 20) 1740 cal