

Math 70

Test #2 (Chapters 4 and 5)

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.

Name _____

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

Write the decimal in numbers.

1) Seven hundred seventy-one thousandths 1) _____

A) 0.771

B) 700.71

C) 0.0771

D) 0.00771

Round the number to the given place value.

2) In a town in Texas, the average consumption of soft drinks per day per elementary school student is 14.626 ounces. Round this value to the nearest tenth. 2) _____

A) 14.7 ounces

B) 14.6 ounces

C) 15 ounces

D) 14.63 ounces

Add.

3) $102.85 + 69.65 + 14.505$ 3) _____

A) 187.015

B) 187.005

C) 187.105

D) 188.005

Subtract.

4) $16.56 - 8.138$ 4) _____

A) 25.698

B) 8.522

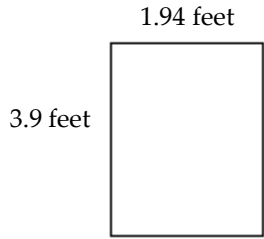
C) 24.698

D) 8.422

Solve.

5) Find the perimeter of the rectangle.

5) _____



A) 11.68 feet

B) 5.84 feet

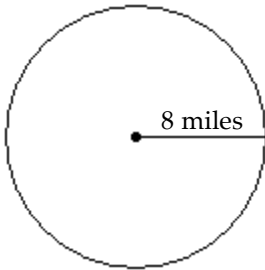
C) 4.66 feet

D) 7.566 feet

Perform the indicated operations. Round the result to the nearest thousandth if necessary.

6) Find the exact circumference of the circle. Then use the approximation 3.14 for π and approximate the circumference.

6) _____



A) 8π mi, 25.12 mi

B) 64π mi, 200.96 mi

C) 16π mi, 50.24 mi

D) 16π mi, 50.4 mi

Multiply.

7) 0.56×0.8

7) _____

A) 0.448

B) 0.00448

C) 0.0448

D) 4.48

Estimate the quotient by first rounding each number.

8) $148.74 \div 54.6$

8) _____

A) 3

B) 5

C) 0.3

D) 30

Divide.

9) $3.04 \div 1000$

9) _____

A) 0.000304

B) 0.00304

C) 3040

D) 304

Write the fraction as a decimal. Round to the nearest thousandth if necessary.

10) $\frac{11}{10}$

10) _____

A) 1.101

B) 1.1

C) 1.099

D) 11.001

Insert $<$, $>$, or $=$ between the pair of numbers to form a true statement.

11) 0.484 ___ 0.444

11) _____

A) =

B) >

C) <

Write the ratio as a ratio of whole numbers using fractional notation. Write the fraction in simplest form.

12) 120 meters to 78 meters

12) _____

A) $\frac{20}{13}$ meters

B) 6

C) 6 meters

D) $\frac{20}{13}$

Fill in the table to calculate miles per gallon.

13)

Beginning Odometer Reading	Ending Odometer Reading	Miles Driven	Gallons of Gas Used	Miles Per Gallon (round to the nearest tenth)
53,453	53,848		18.2	

13) _____

- A) miles driven: 395; miles per gallon: 7189
- B) miles driven: 395; miles per gallon: 21.7
- C) miles driven: 107,301; miles per gallon: 21.7
- D) miles driven: 107,301; miles per gallon: 5895.7

Determine whether the proportion is true.

14) $\frac{25}{5} = \frac{40}{8}$

14) _____

A) True

B) False

Find the unknown number n in the proportion.

15) $\frac{7}{n} = \frac{0.5}{4.5}$

15) _____

A) $2\frac{1}{4}$

B) $31\frac{1}{2}$

C) $3\frac{1}{2}$

D) 63

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

Arrange in order from smallest to largest.

16) 0.083, 0.038, 0.033, 0.088

16) _____

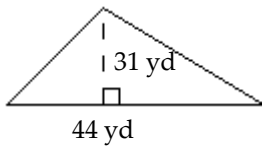
Perform the indicated operations. Round the result to the nearest thousandth if necessary.

17) $0.5[1.79 - (0.4)^2]$

17) _____

Find the area of the triangle or rectangle. Round to the nearest thousandth, if necessary.

18)



18) _____

Find the unit price.

19) Find which is the better buy (lower cost per ounce) by finding each unit price rounded to three decimal places if necessary. Assume that different sizes of the same brand are being compared.

19) _____

Frozen orange juice:
\$6.70 for 12 ounces
\$7.70 for 14 ounces

Solve.

20) A solution strength of 8 mg of medicine in 1 mL of solution is available. If a patient needs 14 mg, how many mL do you administer?

20) _____

Answer Key

Testname: MATH 70 TEST 2

- 1) A
- 2) B
- 3) B
- 4) D
- 5) A
- 6) C
- 7) A
- 8) A
- 9) B
- 10) B
- 11) B
- 12) D
- 13) B
- 14) A
- 15) D
- 16) 0.033, 0.038, 0.083, 0.088
- 17) 0.815
- 18) 682 sq. yd
- 19) \$7.70 for 14 ounces
- 20) 1.75 mL