Name_____

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

Write the decimal in numbers.

1) Two hundred and five tenths

    A) 20.5   B) 200.5   C) 0.205   D) 205.0

Round the number to the given place value.

2) A clothing store has a shirt on sale for $26.95. Round this value to the nearest dollar.

    A) $27   B) $26.95   C) $26   D) $26.0

Add.

3) $82.75 + 9.575 + 6.34 + 2.57$

    A) 101.235   B) 101.335   C) 102.235   D) 101.245
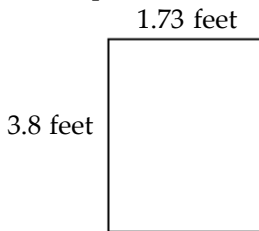
Subtract.

4) $14.2 - 3.29$

    A) 18.49   B) 10.91   C) 11.01   D) 17.49

Solve.

5) Find the perimeter of the rectangle.

1.73 feet

3.8 feet

    A) 6.574 feet   B) 5.53 feet   C) 11.06 feet   D) 4.22 feet

Multiply.

6) 4.3×0.1

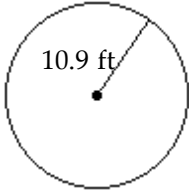   A) 0.43   B) 4.30   C) 4.3   D) 0.043

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

7)

A) 68.452 ft	B) 33.136 ft	C) 66.272 ft	D) 34.226 ft

Estimate the quotient by first rounding each number.

8) $100.08 \div 52.8$

A) 0.2   B) 2   C) 20   D) 4

Divide.

9) $1.85 \div 1000$

A) 0.000185   B) 185   C) 0.00185   D) 1850

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

10) $\dfrac{55}{67}$

A) 1.218   B) 0.082   C) 0.821   D) 8.209

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

11) 0.288 ___ 0.282

A) <   B) >   C) =

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

12) 600 bytes to 120 bytes

A) $\dfrac{12}{5}$ B) $\dfrac{1}{12}$ C) $\dfrac{1}{5}$ D) $\dfrac{5}{1}$

Write the rate as a unit rate.

13) An animal can move at 1320 feet per minute. Write this rate in feet per second.

A) 79,200 ft/sec   B) $\dfrac{11}{30}$ ft/sec   C) 82 ft/sec   D) 22 ft/sec

Determine whether the proportion is true or false.

14) $\dfrac{350}{450} = \dfrac{840}{1080}$

A) True   B) False

For the proportion, find the unknown number n.

15) $\dfrac{\frac{4}{4}}{\frac{4}{5}} = \dfrac{20}{n}$

    A) 100   B) 16   C) $\dfrac{1}{4}$ D) 4

FREE RESPONSE. Work out the problems below, step by step. Show as much work as possible.

Arrange in order from smallest to largest.

    16) 1.764, 1.647, 1.674, 1.467

Simplify the expression.

    17) $24.9 - 2.8 \div 6.9 \times 34.2$ Round to the nearest hundredth if necessary.

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

    18) $\dfrac{7}{8}$ m

1.1 m

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.

Soy Sauce:
$2.87 for 18 ounces
$1.80 for 12 ounces

Solve.

20) The adult daily dosage for insulin is 1 unit for every 15 grams of carbohydrates eaten. If I eat a meal consisting of 110 carbohydrates, how many units of insulin should I take? Round to the nearest whole number.

Answer Key
Testname: MATH070COMMONEXAM02SPRING 2009(CHAPTERS4-5)VERSION01

1) B
2) A
3) A
4) B
5) C
6) A
7) A
8) B
9) C
10) C
11) B
12) D
13) D
14) A
15) D
16) 1.467, 1.647, 1.674, 1.764
17) 11.02
18) 0.963 sq. m
19) $1.80 for 12 ounces
20) 7 units