The actual final exam will have 24 questions: 20 multiple choices (4 points each) and 4 short answers (5 points each). Please do not assume that the content or difficulty level of these practice questions are exactly the same as the actual examination.

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

Solve the problem.

- 1) Gina is buying a used car that has an advertised price of \$4000. She is buying the car on credit and must make a down payment of \$900 and 36 monthly payments of \$109. What is the total cost of the
 - - A) \$4024
- B) \$3924
- C) \$4814
- D) \$4824

Write the number in scientific notation.

- 2) 0.000867 A) 8.67×10^{-5}
- B) 8.67×10^{-3} C) 8.67×10^{-4}
- D) 8.67×10^4

Solve the problem.

- 3) In a math class, 2 of the students arrived late, and 15 arrived on time. What fraction arrived late?

 A) $\frac{2}{17}$ B) $\frac{17}{2}$ C) $\frac{17}{15}$ D) $\frac{15}{17}$

- D) $\frac{15}{17}$

Multiply.

- 4) 0.009×0.6 A) 0.000054 B) 0.0054 C) 0.00054 D) 0.054

Simplify the expression by using the order of operations. 5)
$$4^2 \cdot 3^3 + (13 - 9) \cdot 10$$

A) 472

B) 184

- C) 112
- D) 652

2)

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

6)
$$\frac{2}{3}$$

- A) 6.67
- B) 0.067
- C) 1.5

D) 0.667

Write the decimal as a fraction or mixed number in lowest terms.

7) 0.92
A)
$$\frac{23}{250}$$
 B) $\frac{23}{25}$ C) $\frac{1}{92}$ D) $\frac{1}{8464}$

Divide to find the exact answer. Express the answer as a whole or mixed number when possible and simplify.

8)
$$5\frac{5}{8} \div 9$$

A) $\frac{5}{7}$

B) $\frac{6}{9}$

C) $\frac{5}{8}$

Add. Write your answer in lowest terms.

9)
$$\frac{1}{6} + \frac{1}{3}$$

A) $\frac{2}{3}$

B) $\frac{5}{9}$

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

D) $\frac{2}{9}$

First, use front-end rounding to round each number and estimate the answer. Then, find the exact answer.

10) Carlos's grocery bill was \$8.93. He gave the clerk a \$20 bill. How much change should he receive?

A) Estimate: \$9; exact: \$8.93

C) Estimate: \$11; exact: \$11.06

B) Estimate: \$11; exact: \$11.07

D) Estimate: \$11; exact: \$10.07

Find the average (mean) for the list of numbers.

11) Ages of patients (in years) in a clinic: 20, 9, 27, 20

Round answer to the nearest whole number if necessary.

B) 18 years

C) 9 year(s)

D) 19 years

Find the unknown number in the proportion. Round answer to the nearest hundredth when necessary.

12)
$$\frac{x}{33} = \frac{1}{11}$$

A) x = 0.3

B) x = 4

C) x = 3

D) x = 363.0

Subtract. Write the answer in lowest terms as a mixed number.

$$17\frac{7}{25}$$

13) -
$$9\frac{7}{20}$$

A) $8\frac{93}{100}$

B) $7\frac{93}{100}$

C) $6\frac{95}{100}$

D) 7

Find the difference.

A) -5

B) 5

C) -23

D) 23

14)

15)

13)

10)

11)

12)

Arrange the group of numbers in order, from least to greatest.

15)
$$\frac{4}{5}$$
, $\frac{6}{7}$, $\frac{5}{6}$, 0.95

A) $\frac{4}{5}$, $\frac{5}{6}$, $\frac{6}{7}$, 0.95 B) 0.95, $\frac{6}{7}$, $\frac{5}{6}$, $\frac{4}{5}$ C) $\frac{5}{6}$, $\frac{4}{5}$, $\frac{6}{7}$, 0.95 D) $\frac{6}{7}$, $\frac{5}{6}$, $\frac{4}{5}$, 0.95

Solve the problem.

16) What is 50% of \$100?

A) \$5000

B) \$5

C) \$50

D) \$100

16) _____

Find the difference.

A)

B)

C) -22

D)

Solve th	e problem.					
18) The regular price of a ring is \$968.00. During a May jewelry sale, the ring was discounted 40%. What was the sale price of the ring?					18) _	
	A) \$387.20	B) \$579.80	C) \$580.80	D) \$386.20		
Write as	a percent. Round th	ne percent to the nearest ten	th if necessary.			
19	$(\frac{51}{100})$				19) _	
	A) 25.5%	B) 1000%	C) 51%	D) 5.1%		
	e problem.					
20) Alicia sold \$1274 in paintings at the art fair. If she sold 7 paintings total, and they all sold for the same amount, what was the price of one painting?					ne 20) _	
	A) \$219	B) \$199	C) \$82	D) \$182		
SHORT	ANSWER. Write th	e word or phrase that best o	ompletes each statemer	t or answers the ques	tion.	
Use a pr	oportion to solve the	e problem.				
-) The ratio of the dis	.tances a 7-iron and a 5-iron with a 7-iron, how far shou	_	•	21)	
2.0) lasa san masu s 10				22)	
22	field?	-acre field in 5 hours. How I	ong would it take her to	mow a 7-acre	22)	
Solve th	e problem.					
23	23) If Alison's company charged \$177.60 for 5 hours of work, how much did they charge per hour?					
24	24) Bathing suits are often on sale in July. The regular price of one suit is \$42. With a 15% discount, what is the sale price of the suit?				24)	

Answer Key

Testname: BMCC MAT 008 FINAL EXAM REV VERSION A 112818

- 1) D
- 2) C
- 3) A
- 4) B
- 5) A
- 6) D
- 7) B
- 8) C
- 9) C
- 10) B 11) D
- 12) C
- 13) B
- 14) D
- 15) A
- 16) C
- 17) D
- 18) C
- 19) C
- 20) D
- 21) 163.2 yards
- 22) 3.5 hour(s)
- 23) \$35.52/hour
- 24) \$35.70