

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.

Multiply.

- 1)  $0.002 \times 0.7$  1) \_\_\_\_\_  
 A) 0.000014      B) 0.014      C) 0.0014      D) 0.00014

Solve the problem.

- 2) What is 50% of \$560? 2) \_\_\_\_\_  
 A) \$280      B) \$560      C) \$28      D) \$28,000

- 3) The regular price of a ring is \$381.00. During a May jewelry sale, the ring was discounted 25%. What was the sale price of the ring? 3) \_\_\_\_\_  
 A) \$286.75      B) \$285.75      C) \$96.25      D) \$95.25

- 4) Gina is buying a used car that has an advertised price of \$4500. She is buying the car on credit and must make a down payment of \$300 and 36 monthly payments of \$101. What is the total cost of the car? 4) \_\_\_\_\_  
 A) \$3926      B) \$3736      C) \$3936      D) \$3636

- 5) There are 23 crates of MacIntosh Apples and 4 crates of Granny Smith apples. What fraction of the apples are Granny Smith? 5) \_\_\_\_\_  
 A)  $\frac{23}{4}$       B)  $\frac{4}{23}$       C)  $\frac{23}{19}$       D)  $\frac{4}{23}$

- 6) Alicia sold \$2181 in paintings at the art fair. If she sold 3 paintings total, and they all sold for the same amount, what was the price of one painting? 6) \_\_\_\_\_  
 A) \$740      B) \$727      C) \$760      D) \$627

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

- $17\frac{7}{25}$   
 7)  $- 9\frac{7}{20}$  7) \_\_\_\_\_  
 \_\_\_\_\_  
 A) 7      B)  $6\frac{95}{100}$       C)  $7\frac{93}{100}$       D)  $8\frac{93}{100}$

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

- 8)  $5\frac{5}{9} \div 10$  8) \_\_\_\_\_  
 A)  $\frac{4}{9}$       B)  $\frac{6}{9}$       C)  $\frac{5}{8}$       D)  $\frac{5}{9}$

Write the number in scientific notation.

- 9) 0.000316 9) \_\_\_\_\_  
 A)  $3.16 \times 10^4$       B)  $3.16 \times 10^{-3}$       C)  $3.16 \times 10^{-4}$       D)  $3.16 \times 10^{-5}$

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

10)  $\frac{x}{26} = \frac{1}{13}$  10) \_\_\_\_\_  
A)  $x = 2$  B)  $x = 0.5$  C)  $x = 4$  D)  $x = 338.0$

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

11)  $\frac{23}{34}$  11) \_\_\_\_\_  
A) 1.478 B) 6.76 C) 0.676 D) 0.068

Find the difference.

12)  $(-5 + 2) - (-20 + 20)$  12) \_\_\_\_\_  
A) -3 B) -43 C) -7 D)

13)  $7 - (-1)$  13) \_\_\_\_\_  
A) -6 B) -8 C) 8 D) 6

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

14) 0.7 14) \_\_\_\_\_  
A)  $\frac{7}{100}$  B)  $\frac{1}{70}$  C)  $\frac{1}{4900}$  D)  $\frac{7}{10}$

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

15)  $\frac{5}{6}, \frac{7}{8}, \frac{6}{7}, 0.95$  15) \_\_\_\_\_  
A)  $\frac{5}{6}, \frac{6}{7}, \frac{7}{8}, 0.95$  B)  $\frac{6}{7}, \frac{5}{6}, \frac{7}{8}, 0.95$  C)  $0.95, \frac{7}{8}, \frac{6}{7}, \frac{5}{6}$  D)  $\frac{7}{8}, \frac{6}{7}, \frac{5}{6}, 0.95$

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

16) Ages of patients (in years) in a clinic: 18, 8, 25, 18 16) \_\_\_\_\_  
Round answer to the nearest whole number if necessary.  
A) 8 year(s) B) 18 years C) 17 years D) 16 years

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

17) Trin's grocery bill was \$8.43. He gave the clerk a \$20 bill. How much change should he receive? 17) \_\_\_\_\_  
A) Estimate: \$12; exact: \$10.57 B) Estimate: \$12; exact: \$11.57  
C) Estimate: \$8; exact: \$8.43 D) Estimate: \$12; exact: \$11.56

Simplify the expression by using the order of operations.

18)  $10^2 \cdot 9^3 + (13 - 4) \cdot 8$  18) \_\_\_\_\_  
A) 8172 B) 73,036 C) 612 D) 72,972

Write as a percent. Round the percent to the nearest tenth if necessary.

19)  $\frac{17}{20}$  19) \_\_\_\_\_  
A) 85% B) 42.5% C) 1000% D) 8.5%

Add. Write your answer in lowest terms.

20)  $\frac{1}{3} + \frac{1}{4}$

20) \_\_\_\_\_

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

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

C)  $\frac{2}{7}$

D)  $\frac{7}{12}$

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

Use a proportion to solve the problem.

21) On a map of the Thunderbird Country Club golf course, 2.5 inches represent 30 yards. How long is the 16th hole if the map shows 13.5 inches? 21) \_\_\_\_\_

Solve the problem.

22) David's net pay for a week at the video store was \$52.92. If he worked 12 hours that week, what was his net pay rate? 22) \_\_\_\_\_

23) A camera costs \$550. If the sales tax rate is 4%, how much tax is charged and what is the total price? Round your answers to the nearest cent. 23) \_\_\_\_\_

24) The regular price of a ring is \$676.50. During a May jewelry sale, the ring was discounted 25%. What was the sale price of the ring? 24) \_\_\_\_\_

Answer Key

Testname: BMCC MAT 008 FINAL EXAM REV VERSION B 112818

- 1) C
- 2) A
- 3) B
- 4) C
- D
- 6) B
- 7) C
- 8) D
- 9) C
- 10) A
- 11) C
- 12) A
- 13) C
- 14) D
- 15) A
- 16) C
- 17) B
- 18) D
- 19) A
- 20) D
- 21) 162 yards
- 22) \$4.41/hour
- 23) \$22.00, \$572.00
- 24) \$507.38