AOU
الجامعة العربية المفتوحة
Arab Open University

Faculty of Business Studies

BUS101

Introduction to Math for Business

MTA Examination Makeup / Version: C

2024-2025 / Fall

26-Nov-2024

Number of Exam Pages: 3 (including this cover sheet)	Time Allowed: 1.5 hours

Instructions:

Take **FIVE (5)** minutes to read all instructions carefully before attempting to write.
Answer all FOUR given questions.
Mobile phones must be in "SWITCHED **OFF"** mode throughout the examination.
This is a **CLOSED** book examination. NO documents of any kind are allowed.
You **MUST** answer the questions using only the answer booklets provided
You **MUST** return the examination paper together with your answer booklets.
Do **NOT** write your answers in pencil except graphs/sketches
Students are **NOT** allowed to use any type of dictionary or mobile phones during the examinat
Students are allowed to use ***non-programmable*** calculators only (if needed).
Any form of cheating will **NOT** be tolerated and will subject you to AOU Cheating Policy.

Question 1 (40 marks, 2.5 each)

Answer the following questions and show your steps of calculation:

1. What type is the following fraction? $12\frac{7}{16}$
2. Round **38.563** to the nearest cent.
3. Round **1001.525** to the nearest ten.
4. Convert **1.006** to a mixed number.
5. Convert $11\frac{5}{6}$ to an improper fraction.
6. Convert **6.75 %** to decimal.
7. Convert $6\frac{4}{5}$ to a decimal.
8. Convert $6\frac{1}{2}$% to a fraction.
9. Convert $\frac{7}{8}$ to a percent.
10. Compute $\frac{3}{8}+\frac{2}{9}+\frac{1}{3}$
11. Compute $3\frac{5}{6} \div 3\frac{1}{2}$
12. Compute **9.015 × .001**
13. Compute **128% of 128**
14. Compute $14\frac{5}{8}-10\frac{1}{4}$
15. Solve for the Unknown: $-63B + 92 = -65B + 80$
16. Solve for the Unknown: $10\left(\frac{W}{5} - 3\right) = 8\,(W + 5) - 60$

Question 2 (20 marks, 5 each)

a) Hilton Hotels announced a price decrease of $\frac{1}{10}$ from its $290 weekend package. What is the new weekend package rate?

b) The cost of a hanging flowered plant is $25.95 for the florist, who purchases 300 of these plants. What is the total cost to the florist?

c) Laura and Zoey sold a total of 600 computers. Laura sold 5 times as many computers as Zoey. How many did each sell?

d) The price of a Delta Airlines ticket from New York to Orlando increased to $450. This is an 8% increase. What was the old fare to the nearest cent?

Question 3 (20 marks, 10 each)

a) Ben's business buys a television from a wholesaler with a list price of $600 and a trade discount of 32%. What is the amount of the trade discount and what is the net price of the television?

b) Calculate the End of Discount Period and End of Credit Period.

Date of Invoice	Terms	Date Goods Received	End of Discount Period	End of Credit Period
June 19	3/10, n/30 ROG	July 8	?	?

Question 4 (20 marks, 10 each)

a) Assume markup is based on selling price. Complete:

Selling Price	% of Markup	Dollar Markup	Cost
$750	30%	A	B

b) MZ Corporation produces fudge bars. Total fixed cost is $55,500. Each package of fudge bars sells for $4.95 with a variable unit cost of $3.10. What is the breakeven point for MZ Corporation?

END OF EXAM QUESTIONS