

Review Sheet, Math 105, Final Exam

Instructions: Bring a pencil, eraser, and non-graphing calculator. You may ask questions during the test by raising your hand, but you may not otherwise talk. You will not be allowed to look at other students' papers. Expect to be required to explain your work clearly and accurately. Partial credit can be earned for legible, well-organized work. Each problem will be worth 15 points. **The Final Exam is on Thursday, December 10, from 10:00am-12:30 pm.**

- 1) There are three possible situations in which zero is involved in a division problem. Explain what happens in each situation and support your answer.
(Each explanation will need to fit into a limited space, roughly the size of a 3x5 card. Be sure to plan accordingly!)
- 2) In the ashtray of my car, I have pennies, nickels, dimes, and quarters. Just from knowing how many coins there are, I am certain that there are 5 of some type of coin in my ashtray, but I'm not sure that there are 6 of any one type of coin. List the numbers of coins I might have in my ashtray.
- 3) For which integers x is it true that $|x + 1| < 5$?
- 4) You have given your class this problem: "A two-digit number is divisible by 5. When you divide it by 7, the remainder is 1. What is the number?" Make up the answer key for this question.
- 5) Draw and shade an appropriate Venn Diagram to illustrate the following set: $A \cap (B \cup \overline{C})$
- 6) Use the Rectangular Area Model of Multiplication to illustrate the solution to each of the problems below. Use a diagram and at least one brief sentence, and be sure to clearly indicate what the overall result is in each case.
 7×4 $\frac{1}{2} \times \frac{2}{3}$ $(x + 4)(x + 3)$
(Each explanation will need to fit into a limited space, roughly the size of a 3x5 card. Be sure to plan accordingly!)
- 7) A student in your elementary school class asks you: "Teacher? Why does something with a negative exponent come out to be a fraction? Shouldn't it come out to be negative?" Write up the best explanation you can think of to help this student understand this difficult point. Your answer should contain both mathematical statements and English sentences.
- 8) Use the fact that $\sqrt{2}$ has already been proved to be irrational to write your own proof that $2 - 3\sqrt{2}$ is irrational.
- 9) A student in your elementary school class asks you: "Teacher? I was working out 29.6×3.7 . Why does the answer come out with two decimal places? Shouldn't it come out with one decimal place?" Write up the best explanation you can think of to help this student understand this difficult point. Your answer should contain both mathematical statements and English sentences.

Math 105 Guide Sheet

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Math 105 Guide Sheet:

This book delves into Math 105 Guide Sheet. Math 105 Guide Sheet is an essential topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Math 105 Guide Sheet, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Math 105 Guide Sheet
- Chapter 2: Essential Elements of Math 105 Guide Sheet
- Chapter 3: Math 105 Guide Sheet in Everyday Life
- Chapter 4: Math 105 Guide Sheet in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Math 105 Guide Sheet. The first chapter will explore what Math 105 Guide Sheet is, why Math 105 Guide Sheet is vital, and how to effectively learn about Math 105 Guide Sheet.
3. In chapter 2, the author will delve into the foundational concepts of Math 105 Guide Sheet. The second chapter will elucidate the essential principles that must be understood to grasp Math 105 Guide Sheet in its entirety.
4. In chapter 3, the author will examine the practical applications of Math 105 Guide Sheet in daily life. This chapter will showcase real-world examples of how Math 105 Guide Sheet can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Math 105 Guide Sheet in specific contexts. The fourth chapter will explore how Math 105 Guide Sheet is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Math 105 Guide Sheet. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Math 105 Guide Sheet.

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