

Hesi A2 Math Study Guide

HESI A2 Math Study Guide

Introduction to Fractions

A fraction is a mathematical tool which helps us to count in terms of equal parts of a whole.

For example, a recipe requires $2\frac{1}{4}$ cups of milk, Mike ate $\frac{1}{6}$ of a cake, Sarah ran $\frac{1}{4}$ of a mile, John repaid $\frac{1}{5}$ of a loan.

A fraction is any number of equal parts.

For example, if we cut a small size sausage pizza into 4 equal slices, then 3 such slices of the pizza are the same as:

3 out of the 4 equal slices of the pizza,

or three fourth of the pizza,

or $\frac{3}{4}$ of the pizza.

As we can see from the above example, a fraction has two components, which are called numerator and denominator.

For example, if we consider $\frac{1}{4}$ of a cake, then 1 is the numerator and 4 is the denominator.

A denominator tells us a number of equal parts that make up a whole while a numerator tells us how many of them we are considering.

For example, when we say $\frac{7}{4}$, we are talking about 7 equal parts such that 4 of them make up a whole; in other words, we divided a whole into 4 equal parts and now considering 7 such parts.

Both numerator and denominator of a fraction are integers; however, denominator cannot be zero (we cannot divide a whole into zero parts).

Exercise 1. The cost of the vacation trip is \$4,500 and we are required to pay $\frac{2}{5}$ of that amount when we reserve the trip. How much we need to pay during the reservation?

Solution. All we need to do is to calculate $\frac{2}{5}$ of the cost of the trip.

Since the denominator of the fraction $\frac{2}{5}$ is 5, we understand that the cost is divided into 5 equal amounts:

$$\$4,500 = \$900 + \$900 + \$900 + \$900 + \$900$$

The numerator of the fraction $\frac{2}{5}$ (which is two) tells us how many of those equal amounts we have to pay to reserve the trip:

$$\$900 + \$900 = \$1,800$$

Answer. So, we need to pay \$1,800.

HESI A2 Math Study Guide: Preparing for the HESI A2 exam can be a daunting task, especially when it comes to the math section. This guide will provide you with valuable information, resources, and strategies to help you excel in this crucial part of the exam. The HESI A2 exam, or the Health Education Systems, Inc. Admission Assessment, is an essential step for many nursing programs. The math section assesses your ability to perform basic calculations, solve problems, and apply mathematical concepts relevant to healthcare.

Understanding the HESI A2 Math Section

The HESI A2 math section consists of various types of questions designed to test your mathematical knowledge and skills. This section typically includes topics such as:

- Basic Arithmetic: Addition, subtraction, multiplication, and division.
- Fractions: Operations with fractions, including addition, subtraction, multiplication, and division.
- Decimals: Understanding decimal places and performing operations with decimals.
- Ratios and Proportions: Understanding the relationship between numbers and solving proportion problems.
- Percentages: Calculating percentages, understanding percentage increase/decrease, and applying percentages in real-world scenarios.
- Measurement: Converting between different units of measurement and understanding measurement concepts relevant to healthcare.
- Algebra: Basic algebraic calculations, including solving for unknowns and understanding algebraic expressions.

Key Concepts to Study

To effectively prepare for the HESI A2 math section, it's essential to focus on the key concepts outlined above. Below is a more detailed look at each topic:

1. Basic Arithmetic

- Understand the four basic operations: addition, subtraction, multiplication, and division.
- Be comfortable with order of operations (PEMDAS: Parentheses, Exponents, Multiplication and Division, Addition and Subtraction).
- Practice word problems that require you to apply arithmetic operations in context.

2. Fractions

- Addition and Subtraction: Know how to find a common denominator to perform these operations.
- Multiplication and Division: Understand how to multiply fractions and how to invert a fraction for division.
- Simplifying Fractions: Be able to reduce fractions to their simplest form.

3. Decimals

- Operations: Practice adding, subtracting, multiplying, and dividing decimals.
- Rounding: Be familiar with rounding rules and how to round decimals to a specific place value.
- Conversion: Know how to convert between fractions and decimals.

4. Ratios and Proportions

- Understand what ratios represent and how to simplify them.

- Be able to set up and solve proportions using cross-multiplication.
- Apply ratios and proportions to real-world problems, especially those related to dosage calculations in healthcare.

5. Percentages

- Know how to calculate percentages of whole numbers.
- Understand percentage increase and decrease and how to apply these concepts in various scenarios.
- Practice converting between fractions, decimals, and percentages.

6. Measurement

- Familiarize yourself with common measurement units (length, weight, volume).
- Practice converting between different measurement systems (e.g., metric to imperial).
- Understand common healthcare-related measurements (e.g., dosage calculations for medication).

7. Algebra

- Be able to solve simple equations and understand variables.
- Practice simplifying algebraic expressions.
- Familiarize yourself with word problems that require algebraic solutions.

Effective Study Strategies

Preparing for the HESI A2 math section requires a strategic approach. Here are some effective study strategies:

1. Create a Study Schedule

- Set aside specific times each week dedicated to studying math.
- Break your study sessions into manageable chunks (30-60 minutes) focused on specific topics.
- Prioritize the areas where you feel least confident.

2. Use Practice Tests

- Take full-length practice tests to familiarize yourself with the exam format and timing.
- Review your answers to understand where you went wrong and how to improve.
- Use HESI A2-specific practice tests, as they closely mimic the actual exam content.

3. Utilize Study Resources

- Invest in a reputable HESI A2 study guide that includes math practice problems and explanations.
- Explore online resources and forums where you can find additional practice questions and tips.
- Consider joining study groups to collaborate with peers and share insights.

4. Focus on Weak Areas

- After taking practice tests, identify which topics you struggle with the most.
- Allocate extra study time to these areas and seek additional help if needed.
- Use online tutorials or instructional videos for difficult concepts.

5. Practice Mental Math

- Work on improving your mental math skills to increase speed and accuracy.
- Practice estimating answers to gauge whether your calculations are reasonable.
- Use everyday situations to apply math concepts, such as budgeting or cooking.

Resources for HESI A2 Math Preparation

Here are some recommended resources to aid your study for the HESI A2 math section:

- Books: Look for HESI A2 study guides that include math sections with explanations and practice questions.
- Online Courses: Websites like Khan Academy offer free math courses that cover foundational topics relevant to the HESI A2.
- Flashcards: Create flashcards for key terms and concepts to reinforce your understanding.
- Apps: Download math practice apps that allow you to practice on-the-go.

Test Day Tips

On the day of the exam, being well-prepared can make a significant difference. Here are some tips to ensure you perform your best:

- Get a Good Night's Sleep: Rest well the night before to ensure you are alert and focused.
- Arrive Early: Give yourself plenty of time to arrive at the testing center and get settled.
- Read Each Question Carefully: Take your time to understand what each question is asking before answering.
- Manage Your Time: Keep track of time but don't rush. If you're stuck on a

question, move on and come back to it later.

- Stay Calm: Practice deep breathing or visualization techniques to help manage any test anxiety.

Conclusion

In conclusion, the HESI A2 Math Study Guide is a valuable tool to help you prepare for the math section of the HESI A2 exam. By understanding the key concepts, employing effective study strategies, and utilizing the right resources, you can enhance your mathematical skills and boost your confidence. Remember, consistent practice and a positive mindset are your best allies in achieving success on this critical exam. Good luck!

Frequently Asked Questions

What topics are covered in the HESI A2 Math Study Guide?

The HESI A2 Math Study Guide typically covers topics such as basic arithmetic, algebra, geometry, and measurement, along with data interpretation and word problems.

How can I effectively prepare for the math section of the HESI A2?

To effectively prepare, review key math concepts, practice with sample questions, take timed quizzes, and utilize study guides or online resources to reinforce your understanding.

Are there any recommended books for HESI A2 Math preparation?

Yes, popular books include 'HESI A2 Study Guide 2021-2022' by A. L. S. and 'HESI A2 Math Study Guide' by C. P. These books often provide practice questions and detailed explanations.

What is the passing score for the HESI A2 Math section?

The passing score varies by institution, but a common benchmark is around 75%. It's essential to check with your specific nursing program for their requirements.

How many questions are on the HESI A2 Math section?

The HESI A2 Math section typically contains 50 questions, which you must complete within 50 minutes.

Can I use a calculator on the HESI A2 Math test?

No, calculators are not allowed on the HESI A2 Math test. You'll need to perform calculations by hand or use mental math strategies.

What is the format of the HESI A2 Math questions?

The questions may include multiple-choice format, where you select the best answer from the options provided, and may involve real-world scenarios.

How can I assess my readiness for the HESI A2 Math section?

You can assess your readiness by taking practice tests, reviewing your scores, and identifying areas where you need improvement through diagnostic quizzes.

What are some common mistakes to avoid when studying for the HESI A2 Math?

Common mistakes include neglecting to practice word problems, underestimating the importance of time management, and not reviewing basic math concepts thoroughly.

Are online resources available for HESI A2 Math practice?

Yes, many online platforms offer practice questions, study guides, and interactive tutorials specifically designed for HESI A2 Math preparation.

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HESI Prep Guide - Virginia Western Community College

The HESI A2 is an entrance exam for the Practical Nursing Program at Virginia Western Community College. The exam has six sections: Reading Comprehension, Grammar, Vocabulary, Math, ...

Information to Help Study for the HESI Math Exam

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HESI A2 Nursing Entrance Exam Preparation Guide

The exam has six sections: Reading Comprehension, Vocabulary, Math, Chemistry, Anatomy & Physiology, and Critical Thinking. This handout will discuss each section of the HESI A2 exam and ...

HESI A2 Checklist PDF by Mometrix Test Preparation

Using a checklist to guide your studying provides a structured and organized way to track your progress and ensure that you are covering all the important information!

HESI A2 STUDY PLANNER - smarteditionacademy.com

This planner is intended to be used to help students create a study schedule for the HESI A2 exam

and help students stay organized during their admissions process.

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Hesi A2 Math Practice Questions .pdf - gardiners.com

HESI A2(r) Math practice questions, easy-to-read tutorials explaining everything in plain language, exam tips and tricks, math shortcuts, and multiple choice strategies!

HESI PREP TEST - Community College of Rhode Island

You have very good Math skills and should be able to calculate medication administration problems in your program. However, you may need a little extra assistance from a knowledgeable person ...

Hesi A2 Math Study Guide (PDF) - content.schools.dude.com

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HESI Math Practice Test Questions and Answers

1) What is the primary purpose of the HESI Math test? A. To evaluate mathematical reasoning and problem-solving skills. B. To assess artistic abilities. C. To measure physical fitness. D. To test ...

Preparing for the HESI A2 Admission Exam - quincycollege.edu

The guide includes hundreds of sample questions, step-by-step explanations, and comprehensive practice exams to help review subject areas and improve test-taking skills.

Hesi A2 Math Study Guide (2024) - offsite.creighton.edu

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HESI Math Instructor's Guide

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STUDY GUIDE

(From the question) In a test, in order to get more points, spend more time on difficult questions. Take the diagnostic test that follows.

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Using a checklist to guide your studying provides a structured and organized way to track your progress and ensure that you are covering all the important information!

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