

Devry University Math Placement Test Answers

AMERICAN RIVER COLLEGE ASSESSMENT CENTER

Math COMPASS TEST

SAMPLE ITEMS

These items are not actual items from COMPASS® but are similar in content and format. These items are presented for illustrative purposes and do not constitute a full representation of item content.

Numerical Skills/Pre-Algebra Placement

Averages: Means, Medians, and Modes

- 1 What is the average (arithmetic mean) of 8, 7, 7, 5, 3, 2, and 2?
- A. $3\frac{1}{2}$
B. $4\frac{1}{2}$
C. $4\frac{2}{3}$
D. 5
E. $6\frac{1}{2}$

Basic Operations with Decimals

- 2 Ben is making wooden toys for the next arts and crafts sale. Each toy costs Ben \$1.80 to make. If he sells the toys for \$3.00 each, how many will he have to sell to make a profit of exactly \$36.00?
- A. 12
B. 20
C. 30
D. 60
E. 108

Basic Operations with Fractions

- 3 How many yards of material from a $24\frac{1}{2}$ -yard length of cloth remain after 3 pieces, each $3\frac{1}{2}$ yards long, and 5 pieces, each $2\frac{1}{2}$ yards long, are removed?
- A. $2\frac{1}{4}$
B. $4\frac{1}{4}$
C. $4\frac{1}{2}$
D. $10\frac{1}{4}$
E. $10\frac{1}{2}$

Percentages

- 4 Philip charged \$400 worth of goods on his credit card. On his first bill, he was not charged any interest, and he made a payment of \$20. He then charged another \$18 worth of goods. On his second bill a month later, he was charged 2% interest on his entire unpaid balance. How much interest was Philip charged on his second bill?
- A. \$8.76
B. \$7.96
C. \$7.60
D. \$7.24
E. \$6.63

Answers: 1. C; 2. C; 3. A; 4. B

Algebra Placement

Elementary Algebra: Linear Equations in One Variable

- 1 A student has earned scores of 87, 81, and 88 on the first 3 of 4 tests. If the student wants an average (arithmetic mean) of exactly 87, what score must she earn on the fourth test?
- A. 85
B. 86
C. 87
D. 92
E. 93

Elementary Algebra: Basic Operations with Polynomials

- 2 Which of the following expressions represents the product of 3 less than twice x and 2 more than the quantity 3 times x ?
- A. $-6x^2 + 25x + 6$
B. $6x^2 + 5x + 6$
C. $6x^2 - 5x + 6$
D. $6x^2 - 5x - 6$
E. $6x^2 - 13x - 6$

Elementary Algebra: Substituting Values into Algebraic Expressions

- 3 If $x = -1$ and $y = 2$, what is the value of the expression $2x^2 - 3xy$?
- A. 8
B. 4
C. -1
D. -4
E. -8

Intermediate Algebra: Rational Expressions

- 4 For all $x \neq 2$, $\frac{x^2 - 5x + 6}{x^2 - 4} = ?$
- A. $\frac{x-3}{x+2}$
B. $\frac{x-2}{x+2}$
C. $\frac{x-2}{x+3}$
D. $\frac{x+3}{x-2}$
E. $\frac{x+3}{x+2}$

Coordinate Geometry: Linear Equations in Two Variables

- 5 What is the equation of the line that contains the points with (x,y) coordinates $(-3,7)$ and $(5,-1)$?
- A. $y = 3x - 2$
B. $y = x + 10$
C. $y = -\frac{1}{3}x + 8$
D. $y = -\frac{2}{3}x + 4$
E. $y = -x + 4$

Answers: 1. D; 2. D; 3. B; 4. A; 5. E

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Devry University Math Placement Test Answers are crucial for incoming students who wish to enroll in math-related courses at DeVry University. This test is designed to assess a student's proficiency in mathematics, ensuring they are placed in the correct level of courses that align with their skills. Understanding the structure of the test, common topics covered, preparation strategies, and the importance of the results can help students navigate this essential step in their academic journey.

Understanding the Math Placement Test

The Math Placement Test at DeVry University is a diagnostic tool used to evaluate a student's readiness for college-level mathematics. This test is often required for students whose academic background might not clearly indicate their math skills. The results help the university place students in the appropriate courses, ranging from remedial classes to advanced mathematics.

Purpose of the Math Placement Test

The primary purposes of the Math Placement Test include:

- **Assessing Skills:** Determine the student's current level of math proficiency.
- **Course Placement:** Help advisors place students in appropriate math courses.
- **Identifying Gaps:** Highlight areas where students may need additional support or review.

Structure of the Test

The Math Placement Test typically consists of various sections that cover fundamental mathematics concepts. The format may vary, but it generally includes multiple-choice questions that assess different skills.

Topics Covered

Students can expect questions from the following areas:

1. **Arithmetic:** Basic operations, fractions, decimals, and percentages.
2. **Algebra:** Solving equations, inequalities, graphing functions, and manipulating algebraic expressions.
3. **Geometry:** Understanding shapes, sizes, volumes, and theorems related to angles and lines.
4. **Statistics:** Basic concepts of mean, median, mode, and interpreting data.
5. **Pre-Calculus:** Concepts of functions, trigonometry, and limits.

Each topic is designed to test the student's understanding and application of mathematical concepts.

Preparing for the Math Placement Test

Preparation is key to performing well on the Math Placement Test. Here are several strategies that students can employ:

Study Resources

Utilizing various study resources can greatly enhance preparation. Some effective resources include:

- Textbooks: Review high school or college-level math textbooks.
- Online Courses: Websites like Khan Academy, Coursera, or YouTube offer free courses on relevant math topics.
- Practice Tests: Taking practice tests can help familiarize students with the test format and timing.

Study Tips

To make the most of their preparation, students should consider the following tips:

- Create a Study Schedule: Allocate specific times each week to study and cover different topics.
- Focus on Weak Areas: Identify and spend extra time on topics that are challenging.
- Practice Regularly: Consistent practice can help reinforce concepts and improve recall during the test.
- Join Study Groups: Collaborating with peers can provide support and different perspectives on solving problems.

Common Mistakes to Avoid

Understanding common pitfalls can help students avoid mistakes during the placement test:

- Rushing Through Questions: Take time to read questions carefully to avoid misinterpretation.
- Ignoring Instructions: Always pay attention to specific instructions that may affect how a question should be answered.
- Overlooking Basic Concepts: Ensure a solid understanding of fundamental concepts, as advanced problems often build on them.
- Not Reviewing Answers: If time permits, review answers before submitting the test to catch any errors.

After the Placement Test

Once students complete the Math Placement Test, they will receive their scores, which will determine their course placements.

Interpreting Test Results

Results typically classify students into several categories:

- Developmental Courses: For those who need to strengthen their foundational skills.
- College Algebra: For students prepared for college-level algebra.
- Calculus and Beyond: For those who demonstrate readiness for higher-level math courses.

Understanding these placements is essential for planning the student's academic path.

What to Do If You're Unsatisfied with Your Score

If a student is not satisfied with their placement test score, they have several options:

1. Retake the Test: DeVry allows students to retake the test under certain conditions. Check the university's policy for details.
2. Enroll in Developmental Courses: Consider enrolling in remedial math courses to build skills before retaking the placement test.
3. Seek Additional Help: Utilize tutoring services or academic support provided by the university.

The Importance of the Math Placement Test

The Math Placement Test is a critical step in a student's academic journey. Its importance cannot be overstated, as it sets the foundation for future coursework and academic success.

Long-term Academic Success

Proper placement can lead to:

- Stronger Understanding: Being in the right course helps students grasp concepts effectively.

- **Increased Confidence:** Success in initial courses can build confidence and motivate students to pursue further studies.
- **Better Graduation Rates:** Appropriate placements can contribute to timely graduation by ensuring students are not overwhelmed by courses that exceed their current skill level.

Conclusion

In summary, the DeVry University Math Placement Test is an essential component of the admissions process for students pursuing math-related fields. By understanding the test's structure, preparing effectively, and recognizing the significance of placement results, students can enhance their chances of success in their academic journey. With the right preparation and mindset, students can confidently approach the Math Placement Test, knowing they are taking a crucial step toward their future.

Frequently Asked Questions

What topics are covered in the DeVry University math placement test?

The DeVry University math placement test typically covers topics such as basic arithmetic, algebra, geometry, and introductory statistics.

How can I prepare for the DeVry University math placement test?

To prepare for the test, students can review fundamental math concepts, practice with sample questions, and utilize online resources or math review books.

Is there a passing score for the DeVry University math placement test?

Yes, DeVry University has a minimum passing score for the math placement test, which may vary by program. It's best to check with the university for specific requirements.

Can I retake the DeVry University math placement test if I don't pass?

Yes, students are usually allowed to retake the math placement test if they do not achieve a satisfactory score on their first attempt.

Are there any resources available for studying for the DeVry University math placement test?

Yes, DeVry University provides various resources such as study guides, practice tests, and tutoring services to help students prepare for the placement test.

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