

# Pert Practice Test Math

## Sample PERT Math Practice Test

**DIRECTIONS:** Select the correct answer choice for each question below. Upon completion, check the answer key and use the PERT Math Level Guide to find your possible score on the PERT math test. To achieve a high (level III) PERT math test score we highly recommend using the complete, crystal-clear [PERT math practice PLUS](#) guide.

**Note:** Do not use a calculator. Calculators cannot be used on most questions on the math section of the PERT test. This 30% sample represents precise PERT math questions selected from main topics on the PERT test.

<b>1. Topic: Order of Operations</b>  Simplify: $18 - 8 + 2(1 - 6)^2 - 16$  a. -41                      b. -11 c. 106                     d. -90	<b>2. Topic: Solving Equations</b>  Solve for $x$ : $\frac{5}{3}(x - 2) - 1 = \frac{2}{3}$  a. -10                      b. 3 c. 4                         d. -6
<b>3. Topic: Solving Inequalities</b>  Solve the inequality $6 - 3y \geq -12$ .  a. $y \geq 6$ b. $y \leq 6$ c. $y \geq -6$ d. $y \leq -6$	<b>4. Topic: Solving Word Problem Situations</b>  A 20-ft piece of board is cut into two pieces such that the second piece is 2 feet more than twice the first piece; find the length of the second piece.  a. 14 feet                      b. 9 feet c. 6 feet                       d. 2 feet
<b>5. Topic: Simplifying Algebraic Expressions</b>  Simplify: $4(2x - 3) - 6x + 17$  a. $2x + 14$ b. $-6x + 13$ c. $2x + 5$ d. $14x + 29$	<b>6. Topic: Exponent Rules</b>  Simplify $(4x^3y)(-6x^{-1}y^3)$  a. $-10x^2y^3$ b. $-24x^{-1}y^3$ c. $-\frac{24y^3}{x^2}$ d. $-2x^3y^3$
<b>7. Topic: Operations with Polynomials</b>  Multiply: $(3n - 5)^2$  a. $9n^2 + 25$ b. $9n^2 - 25$ c. $9n^2 - 30n + 25$ d. $6n^2 - 15n + 10$	<b>8. Topic: Factoring Polynomials</b>  What is one factor of the trinomial: $4x^2 - 5x - 6$  a. $4x - 3$ b. $x - 6$ c. $2x + 3$ d. $x - 2$
<b>9. Topic: Solving Quadratic Equations</b>  Solve $y^2 + 5y - 6$  a. $y = 1$ or $-6$ b. $y = 2$ or $3$ c. $y = -2$ or $3$ d. $y = -1$ or $6$	<b>10. Topic: Finding Intercepts of a Line</b>  Find the $y$ -intercept for the graph: $5x - 2y = -10$  a. $(0, -5)$ b. $(-2, 0)$ c. $(0, 5)$ d. $(-10, 0)$

Pert Test Readiness - [www.theperttest.com](http://www.theperttest.com)

**Pert practice test math** is an essential tool for students who are preparing to take the Postsecondary Education Readiness Test (PERT). The PERT is an assessment designed to measure a student's readiness for college-level courses, particularly in mathematics, reading, and writing. The math section of the PERT can be particularly challenging, as it covers a range of topics from basic arithmetic to algebra and geometry. In this article, we will explore the PERT math test, the types of questions you can expect, preparation strategies, and resources to help you succeed.

## Understanding the PERT Math Test

The PERT math test is designed to evaluate a student's mathematical skills and knowledge. It consists of multiple-choice questions that assess various mathematical concepts. The test is untimed,

allowing students to work at their own pace, and it is adaptive, meaning that the difficulty of the questions may change based on the student's answers.

## Structure of the PERT Math Test

The PERT math section typically includes approximately 30 questions that cover the following areas:

1. Arithmetic (20% of the test)
  - Basic operations (addition, subtraction, multiplication, division)
  - Fractions, decimals, and percentages
  - Ratios and proportions
2. Algebra (40% of the test)
  - Simplifying expressions
  - Solving equations and inequalities
  - Functions and their properties
  - Word problems involving algebraic concepts
3. Geometry (20% of the test)
  - Basic geometric shapes and properties
  - Perimeter, area, and volume calculations
  - The Pythagorean theorem
4. Data Analysis and Statistics (20% of the test)
  - Interpreting graphs and charts
  - Mean, median, mode, and range
  - Probability concepts

## Types of Questions on the PERT Math Test

The PERT math test includes various types of questions, including:

- Multiple-choice questions: Students are presented with a question and several answer choices, only one of which is correct.
- Word problems: These questions require students to translate a written scenario into mathematical equations and solve for the unknown.
- Graphical questions: Students may need to interpret data from graphs or charts.

## Sample Questions

Here are some sample questions that reflect the types of items you might encounter on the PERT math test:

1. Arithmetic: What is 25% of 200?
  - A) 25

- B) 50
- C) 75
- D) 100

2. Algebra: Solve for x:  $3x + 5 = 20$ .

- A) 3
- B) 5
- C) 7
- D) 15

3. Geometry: What is the area of a rectangle with a length of 10 and a width of 5?

- A) 15
- B) 30
- C) 50
- D) 100

4. Statistics: If the average of the numbers 2, 4, 6, and x is 5, what is the value of x?

- A) 2
- B) 4
- C) 6
- D) 8

## **Preparation Strategies for the PERT Math Test**

To perform well on the PERT math test, students should engage in effective preparation strategies. Here are some tips to help you get ready:

### **1. Review the Math Concepts**

Familiarize yourself with the key math concepts that the PERT covers. Focus on:

- Basic arithmetic operations
- Algebraic expressions and equations
- Geometry principles
- Data interpretation and statistics

### **2. Take Practice Tests**

Taking practice tests is one of the most effective ways to prepare for the PERT math section. Practice tests help you:

- Understand the format and structure of the exam
- Identify areas where you need improvement
- Build confidence in your test-taking abilities

You can find free or low-cost PERT practice tests online, in study guides, and through educational institutions.

### **3. Utilize Online Resources and Study Guides**

Several online resources and study guides can assist you in your preparation. Consider using:

- Educational websites that offer math tutorials
- YouTube channels with instructional videos
- PERT-specific study guides available for purchase or download

### **4. Join a Study Group or Tutoring Session**

Collaborating with peers or seeking help from a tutor can enhance your understanding of mathematical concepts. Study groups allow you to:

- Discuss challenging problems
- Share resources and strategies
- Provide support and motivation

## **Test Day Tips**

The day of the PERT test can be nerve-wracking, but with proper preparation, you can approach it with confidence. Here are some tips to keep in mind:

### **1. Get a Good Night's Sleep**

Ensure you are well-rested the night before the test. A clear mind will help you think more critically and solve problems more effectively.

### **2. Arrive Early**

Plan to arrive at the testing location early to reduce anxiety. This will give you time to relax and get settled before the test begins.

### **3. Read Each Question Carefully**

Take your time to read each question and all answer choices thoroughly. Pay attention to keywords in word problems that could hint at the necessary operations (e.g., "total," "difference," "product").

## **4. Use Scratch Paper Wisely**

If allowed, use scratch paper to jot down calculations, graphs, or diagrams. This can help you visualize and organize your thoughts.

## **5. Manage Your Time**

Keep an eye on the time, but don't rush. If you're stuck on a question, move on and return to it later if time allows.

## **Conclusion**

The PERT practice test math section is a crucial step in your journey toward college readiness. Understanding the test structure, types of questions, and effective preparation strategies will put you in a strong position to perform well. By utilizing available resources, practicing regularly, and maintaining a positive mindset on test day, you can improve your math skills and confidence. Remember, the PERT is just one part of your academic journey, and with dedication and effort, you can achieve the scores you need to succeed in your future studies.

## **Frequently Asked Questions**

### **What is the purpose of a PERT practice test in math?**

The PERT practice test in math is designed to assess a student's readiness for college-level math courses and to help identify areas where they may need improvement.

### **What topics are typically covered in the PERT math practice test?**

The PERT math practice test usually covers topics such as algebra, geometry, and basic arithmetic, including operations with real numbers and problem-solving skills.

### **How can I access free PERT math practice tests?**

Free PERT math practice tests can be accessed through various educational websites, community colleges, and online learning platforms that offer test preparation resources.

### **How long is the PERT math test?**

The PERT math test is typically untimed, but most students complete it within 60 to 90 minutes.

## What is the passing score for the PERT math test?

The passing score for the PERT math test can vary by institution, but generally, a score of 113 or higher is considered passing for college-level courses.

## Are calculators allowed on the PERT math test?

Yes, a basic calculator is allowed on certain sections of the PERT math test, but it is advisable to check the specific guidelines of your testing center.

## How can I improve my score on the PERT math practice test?

To improve your score, review foundational math concepts, practice with sample questions, take full-length practice tests, and focus on weak areas identified during practice.

## What strategies can I use while taking the PERT math test?

Strategies include reading each question carefully, eliminating obviously wrong answers, managing your time effectively, and making educated guesses when necessary.

## Can I retake the PERT math test if I am not satisfied with my score?

Yes, you can retake the PERT math test, but there may be a waiting period and specific policies set by your institution regarding retakes.

## What are some recommended study materials for the PERT math test?

Recommended study materials include PERT prep books, online courses, math workbooks, and practice tests specifically designed for the PERT exam.

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