

Workkeys Applied Mathematics Practice Test

Unit 4 Test
Form B

Name Answer Key Date _____

Fill in the circle for the correct answer.

Choose an equivalent expression and its value.

1. $4 \times 10 \times 10 \times 10 \times 10$

(A) $10 \times 4^3 = 640$
(B) $10 \times 4^4 = 2,560$
(C) $4 \times 10^3 = 4,000$
(D) $4 \times 10^4 = 40,000$

2. $11.6 \times 10 \times 10 \times 10 \times 10 \times 10$

(F) $11.6 \times 10^5 = 1,160,000$
(G) $11.6 \times 10^4 = 116,000$
(H) $11.6 \times 10^3 = 11,600$
(K) $11.6 \times 10^2 = 1,160$

Choose an equivalent product.

3. $2 \times 0.3 =$

(A) 0.3×0.3
(B) $2 \times 3 \times 0.1$
(C) 2×3
(D) $2 \times 3 \times 0.1 \times 10$

4. $11 \times 0.05 =$

(F) $11 \times 5 \times 0.01$
(G) $11 \times 5 \times 0.01 \times 10$
(H) 11×5
(K) $11 \times 11 \times 11 \times 11 \times 11$

Multiply.

5. $200 \times 70 =$

(A) 140
(B) 1,400
(C) 14,000
(D) 140,000

6. $39 \times 100 =$

(F) 390
(G) 3,900
(H) 39,000
(K) 390,000

7. $40 \times 500 =$

(A) 20,000
(B) 2,000
(C) 200
(D) 20

8. $50 \times 0.1 =$

(F) 500
(G) 50
(H) 5
(K) 0.5

Math Expressions
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Unit 4 Test, Form B

WorkKeys Applied Mathematics Practice Test is an essential tool for individuals seeking to enhance their mathematical skills in a workplace context. The WorkKeys assessment system, developed by ACT, is designed to evaluate and certify skills that employers deem necessary for various job roles. Among the various components of the WorkKeys assessment, the Applied Mathematics section specifically measures an individual's ability to solve problems using mathematical concepts and reasoning. This article will delve into the importance of the WorkKeys Applied Mathematics practice test, its structure, types of questions, preparation strategies, and tips for success.

Understanding the WorkKeys Applied Mathematics Assessment

The WorkKeys Applied Mathematics assessment is a standardized test that assesses an individual's ability to apply mathematical reasoning in real-world scenarios. This section is crucial, as it reflects a person's capability to handle quantitative information that is often encountered in many jobs. The results from this assessment can help employers identify candidates who possess the requisite mathematical skills for a specific job.

Importance of the Applied Mathematics Assessment

The significance of the WorkKeys Applied Mathematics assessment cannot be overstated. Here are several reasons why it is essential:

1. **Skill Validation:** It provides a valid measure of an individual's mathematical skills, which can be critical in industries such as manufacturing, healthcare, finance, and technology.
2. **Career Advancement:** Many employers use WorkKeys scores as a criterion for hiring and promotion decisions. Higher scores can lead to better job opportunities and career advancement.
3. **Customized Training:** Results from the assessment can help identify areas where further training or education may be needed, allowing for tailored skill development.
4. **Workforce Development:** It aids educational institutions and workforce development programs in creating curricula that align with industry needs.

Structure of the Applied Mathematics Assessment

The Applied Mathematics assessment consists of various mathematical tasks that reflect real-life work scenarios. Understanding its structure is crucial for effective preparation.

Format of the Assessment

- **Number of Questions:** The assessment typically includes 33 multiple-choice questions.
- **Time Limit:** Candidates are usually allotted 55 minutes to complete the test.
- **Scoring:** Scores range from 3 to 7, with higher scores indicating a greater level of mathematical skill. A

score of 4 is often considered the minimum requirement for many entry-level jobs.

Types of Questions

The questions on the Applied Mathematics assessment vary in difficulty and type. Here are common categories:

1. Basic Arithmetic: Involves addition, subtraction, multiplication, and division.
2. Measurement: Questions may involve calculating dimensions, weight, area, volume, or temperature.
3. Data Interpretation: Candidates may need to interpret data from graphs, charts, and tables.
4. Algebra: This can include solving equations or working with variables.
5. Problem Solving: Real-world problems that require multi-step solutions are often included.

Preparing for the WorkKeys Applied Mathematics Assessment

Preparation is key to succeeding on the Applied Mathematics assessment. Here are some strategies to consider:

Study Resources

1. Official WorkKeys Preparation Materials: ACT provides official study guides and practice tests that emulate the actual test format.
2. Online Practice Tests: Websites and platforms offer free or paid practice tests to help familiarize candidates with the test structure.
3. Mathematics Workbooks: Books focused on applied mathematics concepts can help strengthen fundamental skills.
4. Tutoring Services: For personalized help, consider working with a tutor who specializes in mathematical concepts relevant to the WorkKeys assessment.

Effective Study Strategies

- Set a Study Schedule: Dedicate specific times for studying to ensure consistent practice.
- Focus on Weak Areas: Identify and spend extra time on topics that are challenging.
- Practice Time Management: During practice tests, time yourself to ensure you can complete the assessment within the allotted time.
- Review Mistakes: Analyze incorrect answers on practice tests to understand where you went wrong and how to improve.

Taking the Practice Test

Taking a practice test is an invaluable part of the preparation process. Here are some tips for maximizing the effectiveness of your practice test experience:

Simulate Test Conditions

- Create a Quiet Environment: Find a distraction-free space to take the practice test.
- Time Yourself: Use a timer to replicate the testing conditions, ensuring you stick to the 55-minute limit.
- Avoid Resources: Try to complete the test without the use of calculators, notes, or other aids to mimic the actual test experience.

Post-Test Review

After completing a practice test, take time to review your answers:

1. Identify Strong Areas: Note which types of questions you answered correctly and confidently.
2. Focus on Weaknesses: Pay attention to the areas where you struggled, and incorporate more practice in those topics.
3. Track Progress: Keep a record of your scores on practice tests to monitor improvement over time.

Tips for Success on the Applied Mathematics Assessment

As the test day approaches, consider the following tips to help you perform your best:

1. **Stay Calm:** Anxiety can hinder performance. Practice relaxation techniques, such as deep breathing, to stay calm.
2. **Read Questions Carefully:** Take your time to understand what each question is asking before attempting an answer.
3. **Show Your Work:** For more complex problems, jot down calculations or reasoning steps. This can help avoid simple mistakes.
4. **Double-Check Your Answers:** If time permits, review your answers, particularly for questions that you found challenging.
5. **Rest Well Before the Test:** A good night's sleep can significantly impact your performance. Ensure you are well-rested before test day.

Conclusion

The WorkKeys Applied Mathematics practice test is a vital resource for individuals seeking to enhance their mathematical skills within a workplace context. By understanding the structure of the assessment, utilizing effective study strategies, and taking practice tests under real conditions, candidates can improve their chances of achieving a high score. Whether you are preparing for a specific job or looking to advance your career, investing time in preparation for the WorkKeys Applied Mathematics assessment can yield significant benefits for your professional journey.

Frequently Asked Questions

What is the WorkKeys Applied Mathematics practice test designed to assess?

The WorkKeys Applied Mathematics practice test is designed to assess an individual's ability to solve problems using mathematical concepts and skills in real-world situations.

How can I access the WorkKeys Applied Mathematics practice test?

You can access the WorkKeys Applied Mathematics practice test through the ACT website or through local educational institutions that offer WorkKeys assessments.

What types of mathematical concepts are covered in the WorkKeys Applied Mathematics practice test?

The test covers a variety of mathematical concepts, including basic arithmetic, algebra, measurement, and data interpretation.

How long is the WorkKeys Applied Mathematics practice test, and how many questions does it typically include?

The WorkKeys Applied Mathematics practice test typically lasts about 55 minutes and includes around 30 questions.

What strategies can I use to prepare for the WorkKeys Applied Mathematics practice test?

To prepare, you can practice with sample questions, review mathematical concepts, take online courses, and utilize study guides specifically designed for WorkKeys assessments.

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Workkeys Applied Mathematics Practice Test

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