

# ASVAB National Guard Practice Test (Sample)

## Study Guide



**Everything you need from our exam experts!**

**This is a sample study guide. To access the full version with hundreds of questions,**

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# Introduction

Preparing for a certification exam can feel overwhelming, but with the right tools, it becomes an opportunity to build confidence, sharpen your skills, and move one step closer to your goals. At Examzify, we believe that effective exam preparation isn't just about memorization, it's about understanding the material, identifying knowledge gaps, and building the test-taking strategies that lead to success.

This guide was designed to help you do exactly that.

Whether you're preparing for a licensing exam, professional certification, or entry-level qualification, this book offers structured practice to reinforce key concepts. You'll find a wide range of multiple-choice questions, each followed by clear explanations to help you understand not just the right answer, but why it's correct.

The content in this guide is based on real-world exam objectives and aligned with the types of questions and topics commonly found on official tests. It's ideal for learners who want to:

- Practice answering questions under realistic conditions,
- Improve accuracy and speed,
- Review explanations to strengthen weak areas, and
- Approach the exam with greater confidence.

We recommend using this book not as a stand-alone study tool, but alongside other resources like flashcards, textbooks, or hands-on training. For best results, we recommend working through each question, reflecting on the explanation provided, and revisiting the topics that challenge you most.

Remember: successful test preparation isn't about getting every question right the first time, it's about learning from your mistakes and improving over time. Stay focused, trust the process, and know that every page you turn brings you closer to success.

Let's begin.

# How to Use This Guide

**This guide is designed to help you study more effectively and approach your exam with confidence. Whether you're reviewing for the first time or doing a final refresh, here's how to get the most out of your Examzify study guide:**

## 1. Start with a Diagnostic Review

**Skim through the questions to get a sense of what you know and what you need to focus on. Don't worry about getting everything right, your goal is to identify knowledge gaps early.**

## 2. Study in Short, Focused Sessions

**Break your study time into manageable blocks (e.g. 30 - 45 minutes). Review a handful of questions, reflect on the explanations, and take breaks to retain information better.**

## 3. Learn from the Explanations

**After answering a question, always read the explanation, even if you got it right. It reinforces key points, corrects misunderstandings, and teaches subtle distinctions between similar answers.**

## 4. Track Your Progress

**Use bookmarks or notes (if reading digitally) to mark difficult questions. Revisit these regularly and track improvements over time.**

## 5. Simulate the Real Exam

**Once you're comfortable, try taking a full set of questions without pausing. Set a timer and simulate test-day conditions to build confidence and time management skills.**

## 6. Repeat and Review

**Don't just study once, repetition builds retention. Re-attempt questions after a few days and revisit explanations to reinforce learning.**

## 7. Use Other Tools

**Pair this guide with other Examzify tools like flashcards, and digital practice tests to strengthen your preparation across formats.**

**There's no single right way to study, but consistent, thoughtful effort always wins. Use this guide flexibly — adapt the tips above to fit your pace and learning style. You've got this!**

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## **Questions**

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**1. What are the units for the coefficient of friction?**

- A.  $\text{ft/s}^2$
- B.  $\text{lb/ft}$
- C.  $\text{psi}$
- D. Unitless

**2. Which element is necessary in the formation of rust?**

- A. Nitrogen
- B. Oxygen
- C. Sulfur
- D. Hydrogen

**3. What is the purpose of the ASVAB?**

- A. To determine fitness for physical activities
- B. To assess skills and knowledge for military enlistment
- C. To evaluate artistic abilities
- D. To measure emotional intelligence

**4. Which of the following units do not describe pressure?**

- A.  $\text{N/ft}^2$
- B.  $\text{mmHg}$
- C.  $\text{ksi}$
- D.  $\text{lbf/in}^3$

**5. What does the term 'Jerk' refer to in motion mechanics?**

- A. It is the derivative of velocity
- B. It is the derivative of acceleration
- C. It is the measure of distance covered over time
- D. It is a type of force experienced in motion

**6. What is the maximum time to complete the ASVAB?**

- A. 2 hours
- B. 3 hours
- C. 4 hours
- D. 5 hours

**7. Which section of the ASVAB evaluates knowledge in electronics?**

- A. General Science**
- B. Electronics Information**
- C. Mathematics Knowledge**
- D. Mechanical Comprehension**

**8. How many milliamps are in 5 amps?**

- A. 350**
- B. 500**
- C. 5,000**
- D. 4,500**

**9. Fido weighs 26 pounds more than Fifi. Fifi weighs 12 pounds less than Rover. If the sum of their weights is 71 pounds, how much does Fifi weigh?**

- A. 23**
- B. 19**
- C. 11**
- D. 37**

**10. What element in a car engine helps to reduce friction between moving parts?**

- A. Coolant**
- B. Lubricant**
- C. Fuel**
- D. Air**

## **Answers**

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1. D
2. B
3. B
4. D
5. B
6. B
7. B
8. C
9. C
10. B

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## **Explanations**

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## 1. What are the units for the coefficient of friction?

- A. ft/s<sup>2</sup>
- B. lb/ft
- C. psi
- D. Unitless**

The coefficient of friction is a dimensionless quantity, meaning it has no units. It is a ratio that compares the force of friction between two bodies to the force pressing them together, and it is typically represented by the symbol  $\mu$  (mu). The formula for calculating the coefficient of friction is:  $\mu = F_{\text{friction}} / F_{\text{normal}}$  where  $F_{\text{friction}}$  is the force of friction and  $F_{\text{normal}}$  is the normal force. Since both forces are measured in the same units (typically newtons or pounds), these units cancel each other out in the ratio, resulting in a unitless number. This is why the correct answer is unitless, as it represents a comparison rather than an absolute measurement. Understanding the concept of a unitless measure is crucial in physics and engineering, as it allows for the comparison of different materials without being tied to specific units of measurement, making it easier to analyze and apply in various contexts.

## 2. Which element is necessary in the formation of rust?

- A. Nitrogen**
- B. Oxygen**
- C. Sulfur
- D. Hydrogen

The formation of rust, which is primarily iron oxide, requires the presence of oxygen. When iron is exposed to moisture in the air, the oxygen reacts with the iron to form rust. This chemical reaction can be simplified by the equation:  $4\text{Fe} + 3\text{O}_2 + 6\text{H}_2\text{O} \rightarrow 4\text{Fe(OH)}_3$ , where water (from moisture) is also an important component, but oxygen is the essential element that facilitates the oxidation process. Oxygen plays a critical role in this oxidation reaction, as it combines with iron in the presence of water or moisture, leading to the degradation of metal. Without oxygen, the oxidation cannot occur, and therefore, rust cannot be formed. While nitrogen, sulfur, and hydrogen are all elements that can be found in various environmental conditions or reactions, they do not contribute directly to the rusting process of iron. Nitrogen is relatively inert and does not play a role in the oxidation of iron. Sulfur can lead to different types of corrosion, but it is not a direct factor in the formation of rust. Hydrogen can participate in certain reactions, but it doesn't combine in the same way that oxygen does to create rust. Thus, oxygen is the critical element necessary for the formation of

### 3. What is the purpose of the ASVAB?

- A. To determine fitness for physical activities
- B. To assess skills and knowledge for military enlistment**
- C. To evaluate artistic abilities
- D. To measure emotional intelligence

The purpose of the ASVAB (Armed Services Vocational Aptitude Battery) is primarily to assess skills and knowledge relevant for military enlistment. This comprehensive test measures proficiency in various areas such as mathematics, science, reading comprehension, and technical skills. The results help determine a candidate's suitability for different military roles and assists in placing them in positions that align with their strengths. The design of the ASVAB reflects its goal of ensuring that individuals selected for military service possess the necessary skills and knowledge to be effective in their respective duties. This focus on military-related competencies distinguishes it from assessments aimed at measuring physical fitness, artistic abilities, or emotional intelligence, which involve entirely different evaluative criteria and purposes.

### 4. Which of the following units do not describe pressure?

- A.  $\text{N}/\text{ft}^2$
- B. mmHg
- C. ksi
- D. lbf/in^3**

The unit that does not describe pressure is  $\text{lbf}/\text{in}^3$ . Pressure is defined as force applied per unit area, and it is typically expressed in units that relate force over an area. To understand why  $\text{lbf}/\text{in}^3$  is not a unit of pressure, it's important to look at what it represents. The unit "lbf" stands for pounds-force, while " $\text{in}^3$ " denotes cubic inches. This combination describes force per unit volume rather than force per unit area. In other words, it measures how much force is contained within a certain volume, which fundamentally differs from pressure, which measures how much force is exerted over a specific area. In contrast,  $\text{N}/\text{ft}^2$  (Newtons per square foot), mmHg (millimeters of mercury), and ksi (kips per square inch) all represent pressure.  $\text{N}/\text{ft}^2$  indicates the amount of force per square foot area, mmHg is a measure of pressure that reflects how high a column of mercury will rise under a certain atmospheric pressure, and ksi is a unit commonly used in engineering that indicates kilopounds per square inch. All of these units express the relationship of force over an area, which is the defining characteristic of pressure. Thus, 1

## 5. What does the term 'Jerk' refer to in motion mechanics?

- A. It is the derivative of velocity
- B. It is the derivative of acceleration**
- C. It is the measure of distance covered over time
- D. It is a type of force experienced in motion

In motion mechanics, the term 'jerk' specifically refers to the rate of change of acceleration with respect to time. This means that jerk measures how quickly an object's acceleration is changing. When an object's velocity changes at a varying rate, the jerk indicates how drastic that change in acceleration is over time. This concept is significant in fields like robotics and vehicles, where sudden changes in acceleration can affect motion control and comfort. By understanding jerk, engineers can design systems that minimize uncomfortable or damaging forces during motion changes, leading to smoother experiences. While the other choices relate to different aspects of motion — like velocity describing speed and direction, or distance as a measure over time — they do not address the specific relationship between acceleration and time that defines jerk.

## 6. What is the maximum time to complete the ASVAB?

- A. 2 hours
- B. 3 hours**
- C. 4 hours
- D. 5 hours

The maximum time allowed to complete the ASVAB is indeed 3 hours. This time frame is designed to accommodate the various sections of the test, which assess a wide range of skills and knowledge essential for military service. The test includes different areas such as arithmetic reasoning, mathematics knowledge, paragraph comprehension, and word knowledge, all of which require concentration and time management. Students should be aware that the ASVAB is not just a straightforward examination; it also provides a comprehensive evaluation of a candidate's aptitude in multiple domains. Therefore, allowing sufficient time encourages examinees to carefully read questions and think through their answers, which is critical for obtaining an accurate assessment of their abilities. The other options reflect longer time frames than necessary for a typical test experience, which can lead to fatigue and might not be conducive to optimal performance. Knowing the allotted time can help test-takers strategize their pacing throughout the examination.

**7. Which section of the ASVAB evaluates knowledge in electronics?**

- A. General Science**
- B. Electronics Information**
- C. Mathematics Knowledge**
- D. Mechanical Comprehension**

The section that evaluates knowledge in electronics is Electronics Information. This component of the ASVAB specifically assesses a candidate's understanding of electrical circuits, devices, electronic systems, and their functions. It includes questions on topics such as electrical theory, the components and operation of power systems, and basic electronics concepts. A strong performance in this section indicates familiarity with the principles used in electronic gadgets and systems, which is crucial for various military roles that involve technology and electronic equipment. Comparatively, the other sections focus on different areas. General Science examines a broad range of scientific topics, Mathematics Knowledge tests mathematical skills and concepts, and Mechanical Comprehension evaluates understanding of mechanical principles and physical laws. Each of these sections targets distinct knowledge areas, highlighting the specialized focus of Electronics Information in relation to electronics knowledge.

**8. How many millamps are in 5 amps?**

- A. 350**
- B. 500**
- C. 5,000**
- D. 4,500**

To convert amps to millamps, it is important to remember that 1 amp (A) is equal to 1,000 millamps (mA). Therefore, when you want to find out how many millamps are in 5 amps, you simply multiply the number of amps by 1,000. Here's the calculation you would perform:  $5 \text{ A} \times 1,000 = 5,000 \text{ mA}$ . Thus, the correct answer is that there are 5,000 millamps in 5 amps. This conversion is based on the metric system, where prefixes denote powers of ten, making it straightforward to translate larger units into smaller ones.

**9. Fido weighs 26 pounds more than Fifi. Fifi weighs 12 pounds less than Rover. If the sum of their weights is 71 pounds, how much does Fifi weigh?**

- A. 23
- B. 19
- C. 11**
- D. 37

To find Fifi's weight, let's set up the relationships based on the information given in the question. 1. Let Fifi's weight be represented as  $F$ . 2. According to the question, Fido weighs 26 pounds more than Fifi, so Fido's weight can be represented as  $F + 26$ . 3. Fifi weighs 12 pounds less than Rover. If we let Rover's weight be represented as  $R$ , then Rover's weight can be described as  $F + 12$ . Now, the total weight of Fido, Fifi, and Rover can be expressed with the equation:  $(F + 26) + F + (F + 12) = 71$ . Combining the weights results in:  $3F + 38 = 71$ . From here, you can solve for  $F$ :  $3F = 71 - 38$ ,  $3F = 33$ ,  $F = 33 / 3$ ,  $F = 11$ . This calculation shows that Fifi weighs 11 pounds. The correct choice corresponds to this solution, indicating that Fifi's weight is indeed 11 pounds, confirming the accuracy of this conclusion.

**10. What element in a car engine helps to reduce friction between moving parts?**

- A. Coolant
- B. Lubricant**
- C. Fuel
- D. Air

The element that helps to reduce friction between moving parts in a car engine is lubricant. Lubricants, such as oil, are critical in an engine's operation because they create a thin film between metal surfaces that minimizes direct contact. This film reduces friction, which allows engine parts to move smoothly and helps to prevent wear and tear. Lubricants also assist in cooling the engine by transferring heat away from the moving components. While coolant is important for regulating engine temperature, it does not reduce friction. Fuel provides the necessary energy for the engine to function but does not interact with moving parts in a way that reduces friction. Similarly, air is essential for combustion but does not serve a purpose in reducing friction in the engine's mechanical components. Therefore, lubricant is the right answer due to its specific role in reducing friction and ensuring efficient operation of the engine.

# Next Steps

**Congratulations on reaching the final section of this guide. You've taken a meaningful step toward passing your certification exam and advancing your career.**

**As you continue preparing, remember that consistent practice, review, and self-reflection are key to success. Make time to revisit difficult topics, simulate exam conditions, and track your progress along the way.**

**If you need help, have suggestions, or want to share feedback, we'd love to hear from you. Reach out to our team at [hello@examzify.com](mailto:hello@examzify.com).**

**Or visit your dedicated course page for more study tools and resources:**

**<https://nationalguard.examzify.com>**

**We wish you the very best on your exam journey. You've got this!**

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