

[Click Here](#)



Exam p practice problems

Reddit and its partners use cookies and similar technologies to provide you with a better experience. By accepting all cookies, you agree to our use of cookies to deliver and maintain our services and site, improve the quality of Reddit, personalize Reddit content and advertising, and measure the effectiveness of advertising. By rejecting non-essential cookies, Reddit may still use certain cookies to ensure the proper functionality of our platform. For more information, please see our [Cookie Notice](#) and our [Privacy Policy](#). Given losses at an insurance company have the following probability density function: $f(x) = \begin{cases} x^2 + \frac{1}{3} & 0 < x < 1 \\ 0 & \text{otherwise} \end{cases}$ Losses are subject to a deductible of .5. Calculate the expected payout under this policy. The correct answer is: $A) \frac{1}{5}$.
Summarized Notes of Each Learning Objective My Account Profile IPASS Points Order History Actuarial University Support Contact Us Student FAQs Pass Guarantee Errata Privacy Policy Contact Us (800) 282-2839(860) 379-5470 support@actexlearning.com If you're looking for free Exam P practice problems, you've come to the right place. I've compiled this list of 10 sources that I've used to help members of my Actuary Accelerator Community pass their exam. 1. Exam P Daily Questions Facebook Group (Go)2. TIA sample exams (add them to your cart - they're free) (Go)3. Marcel Finan Study Guide (Go)4. SOA practice problems (Questions & Solutions)5. Sam Broverman/Mad River (Go)6. Saab Actuarial Online Test Page (Go)7. Wisconsin School of Business (Go)8. SOA online sample exams (Go)9. Krzys Ostaszewski YouTube Channel (Go)10. University of Illinois Math Department (Go) Please note that these resources may not all be updated for the current exam syllabus. Double check the syllabus before studying with any free materials! While you're doing practice problems, there's one really important thing to keep in mind. That's that you have to make sure you completely understand the solution to the question. It needs to be a priority because that's how you'll learn. If you find yourself getting discouraged because you keep getting questions wrong, you'll find this video useful. It's actually a GOOD thing. Your mission in doing practice problems is to find the problems that you get wrong. Then you know where you need to focus your study time. Check it out! To get more study tips and advice sent to your email, just sign up at the top right hand corner of this page. Enjoy! Home » Questions » Best exam p sample questions solutionsPreparing for the Exam P can be a daunting task, especially when it comes to finding reliable sample questions and their solutions. The Exam P, also known as Probability Exam, is the first actuarial examination administered by the Society of Actuaries (SOA) and the Casualty Actuarial Society (CAS). It covers a wide range of probability concepts and requires a solid understanding of probability theory and its applications. Having access to a variety of sample questions and their solutions is crucial for effectively preparing for the Exam P. It allows you to practice solving different types of problems, familiarize yourself with the exam format, and identify areas where you need improvement. In this article, we have compiled a comprehensive list of Exam P sample questions solutions to help you in your preparation. Whether you are a beginner or an experienced candidate, these sample questions solutions will provide you with valuable insights into solving probability problems. Make sure to utilize them as part of your study plan to enhance your problem-solving skills and increase your chances of success in the Exam P. See these Exam P Sample Questions Solutions. 1. A company is conducting a survey in a small town. The probability that a randomly selected person will participate in the survey is 0.4. What is the probability that at least 2 out of 5 randomly selected people will participate? 2. A box contains 5 red balls and 3 green balls. If 2 balls are randomly selected without replacement, what is the probability that both balls are red? 3. A fair six-sided die is rolled twice. What is the probability that the sum of the two rolls is greater than 8? 4. A bag contains 10 marbles, 4 of which are red and 6 of which are blue. If 3 marbles are randomly selected without replacement, what is the probability that all 3 marbles are red? 5. An insurance company has 2 types of policies: Policy A and Policy B. The probability that a randomly selected policyholder has Policy A is 0.6. If 3 policyholders are randomly selected, what is the probability that at least 2 have Policy A? 6. A manufacturing process produces defective items with a probability of 0.1. If 5 items are randomly selected, what is the probability that at most 2 are defective? 7. A deck of cards contains 52 cards, including 4 aces. If 5 cards are randomly selected without replacement, what is the probability that at least one ace is selected? 8. A multiple-choice test has 10 questions, each with 4 possible answers. If a student randomly guesses the answers, what is the probability that the student gets at least 7 correct? 9. A bag contains 8 red marbles and 4 blue marbles. If 3 marbles are randomly selected with replacement, what is the probability that all 3 marbles are red? 10. A fair coin is flipped 4 times. What is the probability of getting exactly 2 heads? 11. A box contains 6 red balls and 4 blue balls. If 3 balls are randomly selected without replacement, what is the probability that exactly 2 balls are red? 12. A company has 10 employees, including 4 men and 6 women. If 3 employees are randomly selected, what is the probability that all 3 are women? 13. A bag contains 12 marbles, 5 of which are red and 7 of which are blue. If 2 marbles are randomly selected without replacement, what is the probability that both marbles are blue? 14. A deck of cards contains 52 cards, including 4 aces. If 3 cards are randomly selected without replacement, what is the probability that exactly 2 aces are selected? 15. A box contains 5 red balls, 3 green balls, and 2 blue balls. If 4 balls are randomly selected without replacement, what is the probability that exactly 2 are red? 16. A fair six-sided die is rolled 3 times. What is the probability that at least one roll results in a 6? 17. A multiple-choice test has 5 questions, each with 3 possible answers. If a student randomly guesses the answers, what is the probability that the student gets exactly 3 correct? 18. A bag contains 10 marbles, 3 of which are red and 7 of which are blue. If 2 marbles are randomly selected without replacement, what is the probability that both marbles are red? 19. A company is conducting a survey in a small town. The probability that a randomly selected person will participate in the survey is 0.3. If 4 people are randomly selected, what is the probability that exactly 2 will participate? 20. A box contains 8 red balls and 6 blue balls. If 2 balls are randomly selected without replacement, what is the probability that both balls are red? 21. A deck of cards contains 52 cards, including 4 aces. If 4 cards are randomly selected without replacement, what is the probability that at least 3 aces are selected? 22. A bag contains 9 marbles, 5 of which are red and 4 of which are blue. If 3 marbles are randomly selected without replacement, what is the probability that at least 2 are red? 23. A fair coin is flipped 5 times. What is the probability of getting at most 1 head? 24. A box contains 6 red balls and 4 blue balls. If 2 balls are randomly selected without replacement, what is the probability that exactly one ball is red? 25. A company has 12 employees, including 8 men and 4 women. If 4 employees are randomly selected, what is the probability that exactly 3 are men? 26. A bag contains 10 marbles, 6 of which are red and 4 of which are blue. If 3 marbles are randomly selected without replacement, what is the probability that exactly 2 are red? 27. A deck of cards contains 52 cards, including 4 aces. If 2 cards are randomly selected without replacement, what is the probability that exactly one ace is selected? 28. A box contains 7 red balls, 5 green balls, and 3 blue balls. If 3 balls are randomly selected without replacement, what is the probability that exactly 2 are green? 29. A fair six-sided die is rolled 4 times. What is the probability that all rolls result in an even number? 30. A multiple-choice test has 8 questions, each with 5 possible answers. If a student randomly guesses the answers, what is the probability that the student gets exactly 4 correct? 31. A bag contains 8 marbles, 3 of which are red and 5 of which are blue. If 2 marbles are randomly selected without replacement, what is the probability that at least one is red? 32. A company is conducting a survey in a small town. The probability that a randomly selected person will participate in the survey is 0.2. If 5 people are randomly selected, what is the probability that at most 2 will participate? 33. A box contains 9 red balls and 7 blue balls. If 3 balls are randomly selected without replacement, what is the probability that exactly 2 are red? 34. A deck of cards contains 52 cards, including 4 aces. If 3 cards are randomly selected without replacement, what is the probability that at least one flip results in a tail? 37. A box contains 5 red balls, 3 green balls, and 2 blue balls. If 3 balls are randomly selected without replacement, what is the probability that exactly 2 are red? 38. A multiple-choice test has 6 questions, each with 4 possible answers. If a student randomly guesses the answers, what is the probability that the student gets exactly 5 correct? 39. A bag contains 10 marbles, 5 of which are red and 5 of which are blue. If 2 marbles are randomly selected without replacement, what is the probability that both marbles are blue? 40. A company has 15 employees, including 9 men and 6 women. If 5 employees are randomly selected, what is the probability that at least 3 are men? These are just a few examples of the Exam P sample questions solutions that can help you in your preparation. Remember to practice regularly, understand the underlying concepts, and seek clarification whenever needed. Good luck with your Exam P journey! Are you preparing for the Society of Actuaries (SOA) Exam P? This comprehensive cheat sheet covers all the essential concepts you need to master. Bookmark this page and use it as your quick reference guide while studying! The SOA Exam P tests your knowledge of probability concepts. Here's what you need to know: Duration: 3 hours Number of questions: 30 multiple-choice questions Passing score: Typically around 70% (varies by sitting) Calculator: Only BA-II Plus or BA-II Plus Professional allowed Addition Rule: For any two events A and B: P(A ∪ B) = P(A) + P(B) - P(A ∩ B) The Society of Actuaries (SOA) is interested in supporting candidates as they prepare for the preliminary exams. To that end the SOA has begun to offer online sample exams for some of the preliminary exams. Available at no cost, the sample exams select questions and solutions in an online exam experience that resembles the computer-based testing employed for most of the SOA's preliminary exams. Questions have been coded to meet the exam learning objectives and ensure candidates receive a balanced yet randomized set of questions each time they repeat a sample exam. The current questions are drawn from existing sample questions. The procedure used to create the SOA's actuarial exams from a large pool of items is sophisticated and takes into account different factors, including overall exam difficulty and coverage of the learning objectives. The procedure used for these online simulations does not take into account the overall exam difficulty. Therefore, while falling within the learning objectives for the exam, the items in these sample exams may not be representative of the average difficulty of an actual exam. Online Sample Exam P Online Sample Exam FM If you have questions or technical difficulties with an online sample exam, please write to us at education@soa.org. Reporting Errors: If you find a possible error on a question or solution, please take a screen shot of the question/solution and send it to education@soa.org with the subject line, "Sample Exam ___ (P or FM) Error." We are unable to track questions by question number as the questions are randomized.