

# STATISTICS EXAM QUESTIONS AND ANSWERS

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### Statistics Exam Questions and Answers

**Question 1:** What is the probability of rolling a 6 on a fair six-sided die? **Answer:** 1/6

**Question 2:** Calculate the mean of the following data set: 2, 4, 6, 8, 10 **Answer:** 6

**Question 3:** What is the difference between a population and a sample? **Answer:** A population is the entire group of interest, while a sample is a subset of the population.

**Question 4:** Which type of probability distribution is used to model the number of successes in a sequence of independent trials? **Answer:** Binomial distribution

**Question 5:** What is the null hypothesis in hypothesis testing? **Answer:** The statement that there is no significant difference between the two groups being compared

### Trigonometry: 7th Edition by Lial, Hornsby, and Schneider

#### Questions and Answers

1. Find the sine of 60 degrees.

**Answer:**  $\sin(60^\circ) = \frac{\sqrt{3}}{2}$

2. Solve the triangle given the following information:  $a = 5$ ,  $b = 7$ ,  $c = 10$ .

**Answer:**  $A = 25.1^\circ$ ,  $B = 47.7^\circ$ ,  $C = 107.2^\circ$

**3. Simplify the trigonometric expression:  $(\sin x + \cos x)^2$**

**Answer:**  $(\sin x + \cos x)^2 = \sin^2 x + 2 \sin x \cos x + \cos^2 x = 1 + 2 \sin x \cos x$

**4. Find the period of the function  $f(x) = 2 \cos(3x)$ .**

**Answer:** The period of a cosine function is  $2\pi/b$ , where  $b$  is the coefficient of  $x$ . Therefore, the period of  $f(x)$  is  $2\pi/3$ .

**5. Use the double-angle formula to find  $\cos(2x)$  given that  $\cos(x) = 1/3$ .**

**Answer:**  $\cos(2x) = 2 \cos^2 x - 1 = 2(1/3)^2 - 1 = -5/9$

**Technical Manager Interview Questions and Answers**

**Paragraph 1:**

**Question:** Describe your experience in managing a technical team. How do you foster collaboration and motivate your team members?

**Answer:** As a Technical Manager with over 8 years of experience, I have a proven track record of leading high-performing technical teams. I create a collaborative and empowering work environment by setting clear goals, encouraging open communication, and providing regular performance feedback. I also recognize and reward team achievements to foster a sense of accomplishment and motivation.

**Paragraph 2:**

**Question:** How do you handle technical challenges and unexpected roadblocks?

**Answer:** I approach technical challenges with a systematic and solution-oriented mindset. I gather relevant information, consult with team members and stakeholders, and explore multiple options before making informed decisions. When faced with unexpected roadblocks, I remain calm and collected, and I work quickly to identify potential workarounds or alternative solutions.

**Paragraph 3:**

**Question:** What are your strategies for staying up-to-date with industry best practices and emerging technologies?

**Answer:** I prioritize continuous learning and professional development. I regularly attend industry conferences, read technical publications, and participate in online forums to expand my knowledge base. I also encourage my team to engage in similar activities to foster a culture of innovation and adaptability.

**Paragraph 4:**

**Question:** How do you assess the performance of your team and identify areas for improvement?

**Answer:** I use a combination of quantitative and qualitative metrics to evaluate team performance. I track project progress, customer satisfaction, and employee engagement levels. Based on these assessments, I conduct regular performance reviews to provide constructive feedback and identify areas for improvement. I also solicit input from team members to foster a collaborative and growth-oriented approach.

**Paragraph 5:**

**Question:** What are your strengths and weaknesses as a Technical Manager?

**Answer:** My strengths include my technical expertise, strong leadership skills, and ability to build effective teams. I am a highly analytical and results-oriented individual with a keen eye for detail. My weakness is my tendency to be perfectionistic at times, which I mitigate by prioritizing tasks and delegating responsibilities effectively.

**Tes Akademi Kepolisian (Akpola) Polri 2016**

Tes Akademi Kepolisian (Akpola) Polri merupakan serangkaian seleksi yang harus dijalani oleh calon taruna untuk masuk ke Akpol. Pada tahun 2016, tes Akpol ini diikuti oleh ribuan peserta dari seluruh Indonesia.

**Pertanyaan dan Jawaban Tes Akpol 2016**

**1. Berapa jumlah soal yang diujikan dalam tes tertulis Akpol 2016?**

- Jawaban: 100 soal

**2. Apa saja mata pelajaran yang diujikan dalam tes tertulis Akpol 2016?**

- Jawaban: Bahasa Indonesia, Bahasa Inggris, Matematika, Pengetahuan Umum, dan Tes Potensi Akademik (TPA)

**3. Berapa batas waktu pengerjaan tes tertulis Akpol 2016?**

- Jawaban: 120 menit

**4. Apa saja tahapan seleksi tes Akpol 2016 selain tes tertulis?**

- Jawaban: Tes kesehatan, tes kesamaptaaan jasmani, tes psikologi, dan tes wawancara

**5. Apa syarat minimal untuk lulus tes tertulis Akpol 2016?**

- Jawaban: Mendapatkan nilai minimal 65 untuk setiap mata pelajaran yang diujikan

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