

- 1 $p = 0.36 = \frac{9}{25}$, so $E(X) = \frac{1}{p} = \frac{25}{9}$ or $2\frac{7}{9}$
- 2 $P(Y = 1) = p$, so $p = 0.2$, and $E(Y) = \frac{1}{p} = \frac{1}{0.2} = 5$
- 3 $E(S) = \frac{1}{p} = \frac{9}{2}$ gives $p = \frac{2}{9}$ and $q = \frac{7}{9}$, so $P(S = 2) = pq = \frac{2}{9} \times \frac{7}{9} = \frac{14}{81}$
- 4 Mode is 1; mean = $\frac{1}{p} = \frac{1}{0.5} = 2$

The mode of all geometric distributions is 1.

- 5 $E(X) = \frac{1}{p} = 1 \div \frac{1}{6} = 6$, and $P(X > 6) = \left(1 - \frac{1}{6}\right)^6 = 0.335$
- 6 a $P(\text{non-prime}) = P(1) = p = \frac{1}{16}$, so $E(X) = 1 \div \frac{1}{16} = 16$
 b $P(\text{prime}) = \frac{15}{16}$, so $P(X = 3) = \frac{15}{16} \times \left(\frac{1}{16}\right)^2 = \frac{15}{4096}$ or 0.00366
- 7 a $E(\text{Thierry}) = 1 \div \frac{5}{8} = 1.6$ and $E(\text{Sylvie}) = 1 \div \frac{4}{7} = 1.75$
 Thierry is expected to fail fewer times.
 b $\left(\frac{4}{7} \times \frac{3}{7}\right) \times \left(\frac{5}{8} \times \frac{3}{8}\right) = \frac{45}{784}$ or 0.0574
- 8 a Cards are selected with replacement, so that selections are independent.
 b i $P(\text{diamond}) = \frac{1}{4}$, so $E(X) = 4$, and $P(X = 4) = \frac{1}{4} \times \left(\frac{3}{4}\right)^3 = \frac{27}{256}$ or 0.105
 ii Four ways: SSD, SCD, CSD and CCD. Probability is $4 \times 4 \times \left(\frac{1}{4}\right)^2 = \frac{1}{16}$ or 0.0625
- 9 $E(X) = \frac{1}{0.998} = 500$, and $P(X \leq b) = 1 - 0.998^b$.
 Now $1 - 0.998^b > 0.865$
 $0.998^b < 0.135$
 $b \log 0.998 < \log 0.135$
 $b > \frac{\log 0.135}{\log 0.998} = 1000.23 \dots$, so the smallest possible b is 1001.

10 a

	1st toss	2nd toss	3rd toss
Anouar	tail	tail	head
Zane	tail	tail	

Sequence is $A_{\text{tail}}, Z_{\text{tail}}, A_{\text{tail}}, Z_{\text{tail}}, A_{\text{head}}$, i.e. two tails each then a head for Anouar.

- b $0.5^2 + 0.5^4 + 0.5^6 + 0.5^8 + \dots$
- c $\frac{P(\text{Anouar wins})}{P(\text{Zane wins})} = \frac{0.5 + 0.5^3 + 0.5^5 + 0.5^7 + \dots}{0.5^2 + 0.5^4 + 0.5^6 + 0.5^8 + \dots}$
 $= \frac{0.5(1 + 0.5^2 + 0.5^4 + 0.5^6 + \dots)}{0.5^2(1 + 0.5^2 + 0.5^4 + 0.5^6 + \dots)} = \frac{1}{0.5} = 2.$

Anouar is twice as likely to win a game as Zane, so $P(\text{Anouar wins}) = \frac{2}{3}$.

Ocr S1 Worked Solutions

J Elliott



Ocr S1 Worked Solutions:

This book delves into Ocr S1 Worked Solutions. Ocr S1 Worked Solutions is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Ocr S1 Worked Solutions, encompassing both the fundamentals and more intricate discussions.

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