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Solutions to Problem Set 3 1. (MU 3.3) Suppose that we roll a standard fair die 100 times. Let X be the sum of the numbers that appear over the 100 rolls. Use Chebyshev's inequality to bound P[|X −350| ≥ 50]. Let X i be the number on the face of the die for roll i. Let X be the sum of the dice rolls. Therefore X = P 100 i=1 X i. By linearity of expectation, we write E[X] =

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