

22S:25 HW Supplement 7 Name _____ Sec _____
(Chapters 16 - 17) **Directions:** For each problem, show the work in the space provided.

1. A biased coin lands on heads with probability = $1/8$. If this coin is flipped 100 times, the **number of times** it lands on heads is like the sum of 100 draws, with replacement, from the box:

2. **225 draws** are to be made, with replacement, from the box shown:

13	2	7	7
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a) the **expected sum** of the draws = _____

b) the **standard error for the sum** of the draws is = _____

3. A box of tickets has an average and standard deviation as indicated. **80 draws** are to be made, with replacement, from the box.

average = 2
SD = 3

a) the **expected sum** of the draws = _____

b) the **standard error for the sum** of the draws is _____

c) Use a **normal curve to estimate** the probability that the sum of the draws is greater than 200.