

M\$6 Homework 54

- During a 10-week softball season, Jo got the following hits per week:
3, 8, 6, 1, 5, 7, 6, 5, 6, 3
 - Find the standard deviation of the number of hits.
 - The probability of Jo getting a hit is $\frac{1}{4}$. If she comes to bat three times, what is the probability that she will get at least two hits?
- On the first test of the quarter, the mean score was 80 and the standard deviation was 3. On the second test of the quarter, the mean score was 85 and the standard deviation was 2. On which test was there greater consistency of scores? Explain how you arrived at your answer.
- What is the third term in the expansion of $(a - 3b)^4$?
- The sides of a triangle measure 6, 7, and 9. What is the cosine of the largest angle?
 - $-\frac{4}{84}$
 - 81
 - $\frac{4}{84}$
 - $-\frac{1}{81}$
- Find, to the *nearest tenth of a degree*, all positive values of θ less than 360° that satisfy the equation $5 \cos^2 \theta - 6 \sin \theta = 0$.
- When Joe bowls, he can get a strike (knock down all the pins) 60% of the time. How many times more likely is it for Joe to bowl at least three strikes out of four tries as it is for him to bowl zero strikes out of four tries? Round your answer to the nearest whole number.