18. [10 pts - 2 or 4 each] An experiment consists of spinning a spinner marked 3, 5, 6 in equal sections and then rolling an ordinary die.

(a) List the members of a uniform sample space for this experiment.

\[
\begin{align*}
(3,1) & \quad (3,2) & \quad (3,3) & \quad (3,4) & \quad (3,5) & \quad (3,6) \\
(5,1) & \quad (5,2) & \quad (5,3) & \quad (5,4) & \quad (5,5) & \quad (5,6) \\
(6,1) & \quad (6,2) & \quad (6,3) & \quad (6,4) & \quad (6,5) & \quad (6,6)
\end{align*}
\]

(b) What is the probability that the number on the die is at least as large as the number on the spinner?

\[
\frac{7}{18}
\]

(c) What is the probability that the sum is 8 and you got a two or three on one of the objects?

\[
\frac{3}{18}
\]

(d) What is the probability that the sum is 8 given that you got a two or three on one of the objects?

\[
\frac{3}{10} \quad \text{(or } \frac{3}{8} \text{ is okay)}
\]

19. [5 pts] Draw a spinner that simultaneously satisfies all these conditions:

- The probability of landing on red, yellow, blue, green, or white is 1.
- The probability of landing on a color in the American flag is 1/2.
- The probability of landing on yellow is twice that of landing on green.
- At least one color has a probability of 0.