experimental probability of rolling a 1 using a standard die. Complete 10 trials.

b) Repeat part (a), but complete 30 trials.

c) How do your experimental probabilities compare with the theoretical probability you calculated in question 1(b)?

3. Both Rick and Dominique spun this spinner 18 times, for a total of 36 spins. Choose the fraction that matches each probability.

$\frac{14}{18}$	$\frac{5}{9}$
$\frac{1}{9}$	$\frac{9}{18}$

a) the theoretical probability of spinning an odd number

b) the theoretical probability of spinning purple

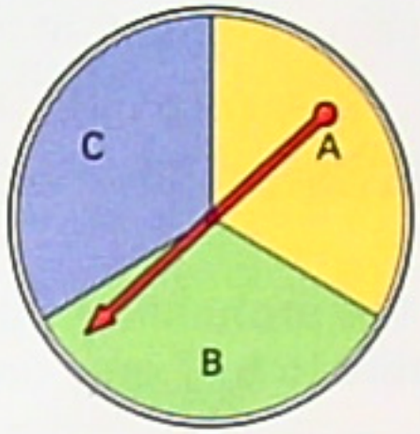
c) an unexpected experimental probability of spinning blue

d) an experimental probability of spinning an even number

ii) P(sum of 3 or 4)

iii) P(sum of neither 3 nor 4) (12.3)

6. Suppose that you roll a 12-sided die (with numbers 1 to 12) and spin this spinner. Which is more likely—rolling an even number and spinning A, or rolling a number that is not a multiple of 3 and not spinning C? (12.3)



7. Judy has three pairs of pants: a blue pair, a black pair, and a brown pair. She has four shirts: one blue, one pink, one white, and one green. She also has three jackets: one black, one white, and one navy blue. (12.3)

a) Use a tree diagram to show all the possible outfits Judy could wear.

b) What is the probability that at least one outfit will include something black?

c) What is the probability that an outfit will not include something blue?