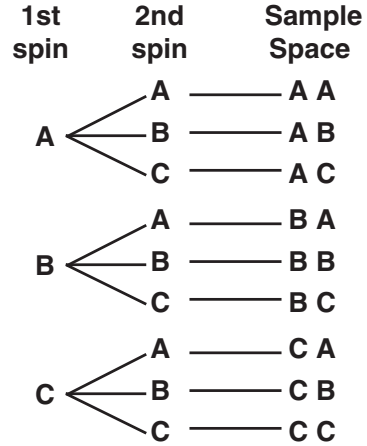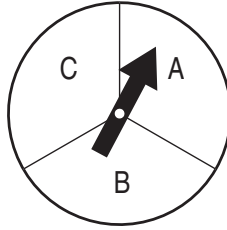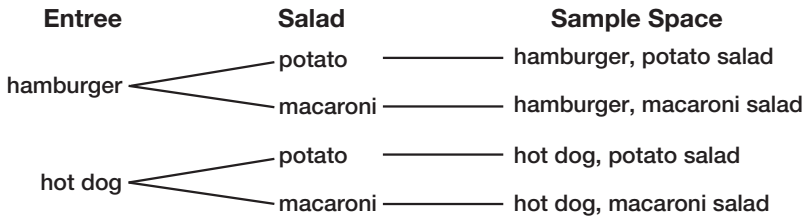# Skills Practice

Probability of Compound Events

The spinner at the right is spun twice.

1. Draw a tree diagram to represent the situation.

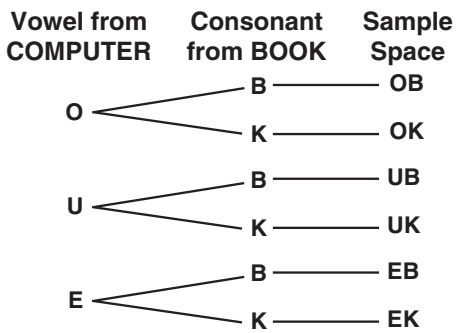2. What is the probability of getting at least one A? $\dfrac{5}{9}$

For each situation, make a tree diagram to show the sample space. Then give the total number of outcomes.

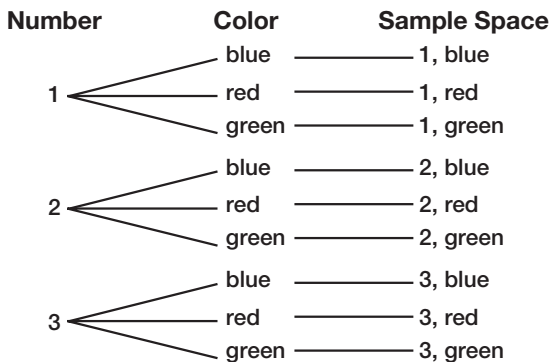3. choosing a hamburger or hot dog and potato salad or macaroni salad

Entree	Salad	Sample Space
hamburger	potato	hamburger, potato salad
	macaroni	hamburger, macaroni salad
hot dog	potato	hot dog, potato salad
	macaroni	hot dog, macaroni salad

1st spin	2nd spin	Sample Space
A	A	A A
	B	A B
	C	A C
B	A	B A
	B	B B
	C	B C
C	A	C A
	B	C B
	C	C C

There are 4 possible outcomes.

4. choosing a vowel from the word COMPUTER and a consonant from the word BOOK

Vowel from COMPUTER	Consonant from BOOK	Sample Space
O	B	OB
	K	OK
U	B	UB
	K	UK
E	B	EB
	K	EK

There are 6 possible outcomes.

5. choosing between the numbers 1, 2 or 3, and the colors blue, red, or green

Number	Color	Sample Space
1	blue	1, blue
	red	1, red
	green	1, green
2	blue	2, blue
	red	2, red
	green	2, green
3	blue	3, blue
	red	3, red
	green	3, green

There are 9 possible outcomes.