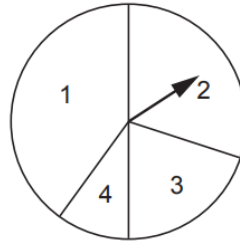


a) A student has a spinner with sectors numbered 1, 2, 3 and 4.



The table shows the probability of each score:

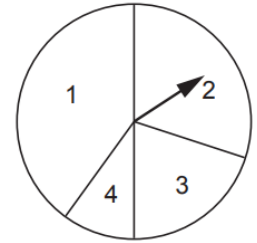
Score	1	2	3	4
Probability	0.4	0.3	0.2	0.1

The student spins the spinner twice.  
Calculate the probability that the student gets the same score on each spin.

What is the probability that the student spins a 1 followed by a 1?	To calculate the probability of scoring a 1 followed by a 1, we multiply the probability of scoring a 1 by the probability of scoring a 1. $0.4 \times 0.4 = 0.16$
What is the probability of spinning a 2 and 2? Or a 3 and a 3? ...	$P(2,2) = 0.3 \times 0.3 = 0.09$ $P(3,3) = 0.2 \times 0.2 = 0.04$ $P(4,4) = 0.1 \times 0.1 = 0.01$
What is the probability of spinning the same score on each spin?	$0.16 + 0.09 + 0.04 + 0.01 = 0.3$

b) A student has a spinner with sectors numbered 1, 2, 3 and 4.

(Diagram not drawn accurately)



The table shows the probability of each score:

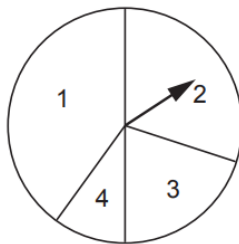
Score	1	2	3	4
Probability	0.5	0.3	0.1	0.1

The student spins the spinner twice.  
Calculate the probability that the student gets the same score on each spin.

What is the probability that the student spins a 1 followed by a 1?	To calculate the probability of scoring a 1 followed by a 1, we multiply the probability of scoring a 1 by the probability of scoring a 1. $0.5 \times 0.5 = 0.25$
What is the probability of spinning a 2 and 2? Or a 3 and a 3? ...	$P(2,2) = 0.3 \times 0.3 = 0.09$ $P(3,3) = 0.1 \times 0.1 = 0.01$ $P(4,4) = 0.1 \times 0.1 = 0.01$
What is the probability of spinning the same score on each spin?	

c) A student has a spinner with sectors numbered 1, 2, 3 and 4.

(Diagram not drawn accurately)



The table shows the probability of each score:

Score	1	2	3	4
Probability	0.2	0.6	0.05	0.15

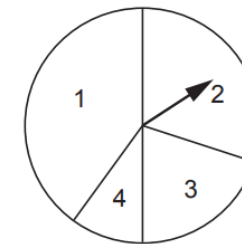
The student spins the spinner twice.

Calculate the probability that the student gets the same score on each spin.

What is the probability that the student spins a 1 followed by a 1?	To calculate the probability of scoring a 1 followed by a 1, we multiply the probability of scoring a 1 by the probability of scoring a 1.  $0.2 \times 0.2 = 0.04$
What is the probability of spinning a 2 and 2? Or a 3 and a 3? ...	
What is the probability of spinning the same score on each spin?	

d) A student has a spinner with sectors numbered 1, 2, 3 and 4.

(Diagram not drawn accurately)



The table shows the probability of each score:

Score	1	2	3	4
Probability	0.42	0.25	0.19	0.14

The student spins the spinner twice.

Calculate the probability that the student gets the same score on each spin.