

Independent Events

Monday, March 24, 2014
8:00 PM

Slide

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Notes

Independent Events

What are the chances of 4 white results?

$$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} = \frac{1}{16}$$

Let's say that you have a disk with one side that is white and one that is blue. What are the chances that you could flip the disk and get white every time for 4 flips?

The first flip, there is a 1 in two chance that it will be white.

Flip again and you still have a 1 in two chance.

This continues for 4 flips. That will give us a sequence of one halves that we can multiply together to get our total probability.

The chance that you will be able to flip 4 whites in a row is one chance in 16.

Try It



What are the chances of rolling a 6,
3 times in a row (all dice are rolled
each time)?

Try this one on your own first. Then,
click here to check the answer.

Next

Congratulations!
You have completed
this topic

Give us feedback about
this lesson if you wish...

