

Yahtzee probability

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Your challenge:

What is the probability of getting five 6's?

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How to approach the challenge:

• This is a large and complex problem – mathematicians will start with a simple problem and work up to a complex one.

How can we simplify this problem?

• You will need a way to keep track of your thinking and attempts at solving.

How are you going to record your ideas/workings?

• It is important that you can describe to others what you have done and be able to justify your solution.

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Can you explain what you have done?

An approach to the 1 die problem:



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What next?

Can you use this approach to extend the problem to 2 dice, 3 dice etc?







Solutions, maths and how to play:

- https://www.wikihow.com/Play-Yahtzee
- <u>https://www.thoughtco.com/probability-of-rolling-a-yahtzee-3126593</u>
- http://datagenetics.com/blog/january42012/index.html
- http://mathworld.wolfram.com/Yahtzee.html
- http://www.yahtzee.org.uk/probability.html

