

## Getting in a team

Everything else being equal, what are the chances of you being chosen in a team of **eight** out of a squad of **ten** players?

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What if the captain (who isn't you) has to be in every team chosen? Are your chances of getting in a team better or worse than they were before? What is the exact probability of you getting in a team?

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What are the chances of you being chosen in a team of **eight** out of a squad of **eleven** players?

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What if the captain (who isn't you) has to be in every team chosen? Are your chances of getting in a team better or worse than they were before? What is the exact probability of you getting in a team?

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What is the chance of being chosen in a team with  $n$  players if there are  $n + 2$  people to choose from?

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What is the chance of being chosen in a team with  $n$  players if there are  $n + 3$  people to choose from?

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What is the chance of being chosen in a team with  $m$  players if there are  $n$  people to choose from? (Simplify the answer as much as possible.)

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