

A Magic 8 Ball is a toy that claims to predict your fortune by giving an answer when you shake it and ask a question (e.g. “Will I get a high score on the next exam?”). Inside of the Magic 8 ball is a **20-sided die** with:

- **10 positive** answers (e.g. “It is certain”)
- **5 negative** answers (e.g. “My sources say no”)
- **5 noncommittal** answers (e.g. “Reply hazy, try again”)

Suppose you decide to keep asking the Magic 8 ball your question until you get a positive answer. What random variable describes the number of times you ask your question?

*(Note: there is a Magic 8 Ball at the front of the room if you would like to give it a try!)*