

Try, Try Again

Steve Shoots Two - Handout

Steve is playing basketball. He gets two shots from the free-throw line. Each shot is worth one point.

On average, he makes the shot half the time.

What is the probability that he will make both shots?



The three possible results are that Steve makes 0 shots, 1 shot, or 2 shots. So each result has a probability of $1/3$.

Aloysius says:

Show that Aloysius is wrong. Here are two strategies to use:

- Make a table, or tree diagram, or a systematic list to find the true probability.
- Simulate Steve's two shots (over and over) to show that the probability is probably not $1/3$.

Large empty rectangular area with a dotted border for student work.