Robot Maths - Theoretical probability (tree diagrams)

Example: What is the probability of...

flipping a coin 3 times and getting tails 3 times?

1) Label the event at the top of the tree diagram ☐

2) Draw lines for each of the outcomes, then label them ☐

3) Write the probabilities along the lines ☐

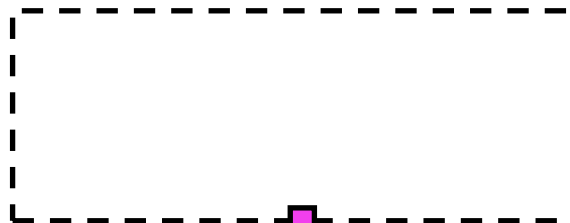4) Multiply along the branches to find the final probability results ☐

Yes

No

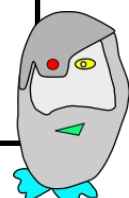*Do you need more than one option to answer your question?*

5) Add the results of all the outcomes you need

5) Select the probability that matches what you want

7) Make your final answer clear using a full sentence

The probability of flipping a coin 3 times and getting 3 tails is

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Example: What is the probability of...

a team winning exactly 1 out of 2 basketball matches if the probability of them winning is 0.2?

1) Label the event at the top of the tree diagram ☐

2) Draw lines for each of the outcomes, then label them ☐

3) Write the probabilities along the lines ☐

4) Multiply along the branches to find the final probability results ☐

Yes

No

Do you need more than one option to answer your question?

5) Add the results of all the outcomes you need

5) Select the probability that matches what you want

7) Make your final answer clear using a full sentence