Topic: Probability Trees

ACCESS MATHS

FEEDBACK

ACTION

Revision Material

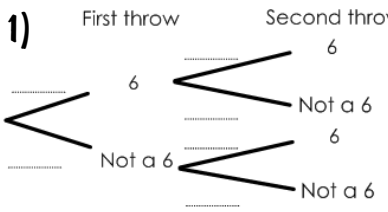
http://corbettmaths.com/contents/ Video 252

RESPONSE

For each question, complete the probability tree diagram.

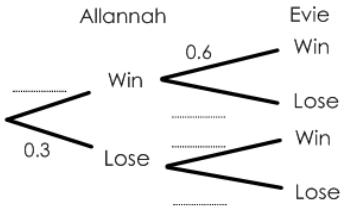
Fluency

1)



In a game, a fair die is thrown twice. To win you must throw two 6s. What is the probability of winning?

2)



Allannah and Evie have been entered for two separate races. What is the probability of only one of the girls winning their race?

3) The probability of a rugby team winning is $\frac{2}{3}$, and drawing is $\frac{2}{9}$. They have 2 matches to play, what is the probability they will lose at least 1 of them?

Reasoning

1) The probability that Jack passes his maths exam is 72%, the probability that George fails is 20%, and the probability that Jack, George and Harry all fail the exam is 1.68%. Draw a probability tree to show this information, and complete it.

a) What is the probability that they all pass the exam?

b) What is the probability that at least two boys pass the exam?

Problem Solving

Jake has a bag containing 3 strawberry, 5 orange, 2 blackcurrant, and 6 lemon & lime flavoured sweets. He takes one out without looking and eats it. He then takes another out and gives it to his friend, Hannah. What is the probability they both end up eating the same flavour sweet?

R A G

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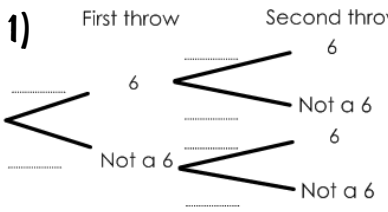

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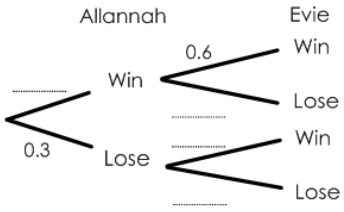

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