



New Maths GCSE: P8 - Tree Diagrams (unconditional)

Name:

Date:

I play a game where I win if I roll a 4 on a dice. I play the game twice.

What probability goes in the **blue** boxes?

A) $5/6$ B) $1/6$

C) $4/6$ D) $1/4$

www.coopsonline.co.uk

Correct Answer: A B C D

Explanation:

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I play a game where I win if I roll a 4 on a dice. I play the game twice.

What probability goes in the **orange** boxes?

A) $1/5$ B) $1/6$

C) $4/6$ D) $5/6$

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Correct Answer: A B C D

Explanation:

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What is the probability I toss two heads?

A) $2/2$ B) $1/4$

C) $1/2$ D) $2/4$

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Correct Answer: A B C D

Explanation:

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What is the probability the first coin is tails and the second is heads?

A) $1/4$ B) $2/4$
 C) $1/2$ D) $2/2$

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Correct Answer: A B C D

Explanation:

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I play a game where I win if I roll a 4 on a dice. I play the game twice. What is the probability I will lose both games?

A) $10/12$ B) $5/36$
 C) $5/6$ D) $25/36$

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Correct Answer: A B C D

Explanation:

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I play a game where I win if I roll a 4 on a dice. I play the game twice. What is the probability I win then lose?

A) $6/36$ B) $1/36$
 C) $6/12$ D) $5/36$

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Correct Answer: A B C D

Explanation:

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I play a game where I win if I roll a 4 on a dice. I play the game twice. What is the probability I win one game and lose the other?

A) $5/36$ B) $10/36$
 C) $6/36$ D) $12/36$

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Correct Answer: A B C D

Explanation:

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I play a game where I win if I roll a 4 on a dice. I play the game twice. What is the probability the results in both games is the same?

A) $25/36$ B) $27/36$
 C) $26/36$ D) $12/36$

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Correct Answer: A B C D

Explanation:

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I play a game where the chance I win is 0.8. I play twice. What is the probability I win a game and lose a game??

A) 0.32 B) 0.16
 C) 3.2 D) 2

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Correct Answer: A B C D

Explanation:

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I toss a coin twice, this tree diagram can help me work out probabilities. Tossing one coin twice is an example of...

A) Dependant events B) Independent events
 C) Hours of fun D) A bad referee

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Correct Answer: A B C D

Explanation:

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What is the probability of winning two games in a row?

A) 1.6 B) 0.8
 C) 0.25 D) 0.16

Correct Answer: A B C D

Explanation:

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What is the probability that I win at least one game?

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graph LR; A[0.6] -- Win --> B[0.6 Win]; A -- Win --> C[0.4 Lose]; A -- Lose --> D[0.6 Win]; A -- Lose --> E[0.4 Lose];
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A B C D

0.84 0.24 0.48 0.30

Correct Answer: A B C D

Explanation:

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