New Maths GCSE: P4 & P7 - Probability Revision

Name:.. Date:......................................

COUNTERS

A bag contains 15 counters. 3 are yellow, 7 are green and the rest are blue.

I pick one counter out of the bag at random. What is the probability that I get a blue counter?

a) $\frac{5}{10}$ b) $\frac{5}{15}$ c) $\frac{10}{15}$ d) 5

Correct Answer: A B C D

Explanation:

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LETTERS

The letters from the word NECCESSITY are put on cards and turned over. I pick one at random.

What is the probability that I pick a vowel?

a) $\frac{3}{10}$ b) $\frac{3}{7}$ c) $\frac{7}{10}$ d) 3

Correct Answer: A B C D

Explanation:

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EXPERIMENTS

A pin is dropped 100 times. The results are shown in the table.

	Frequency
Point Up	61
Point Down	39

Based on my experiment, what is the probability that the next time I drop the pin, it lands **point down**?

a) $\frac{39}{61}$ b) $\frac{39}{100}$ c) $\frac{50}{100}$ d) $\frac{61}{100}$

Correct Answer: A B C D

Explanation:

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PROBABILITY

Which is the least likely to happen?

a) Getting a head on the toss of a coin
b) Getting a 6 on the roll of a dice
c) Getting a Hearts from a deck of cards
d) The day tomorrow ending with a Y

Correct Answer: A B C D

Explanation:

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EXPECTATION

I roll a dice 120 times. How many 1s might I expect to roll?

a) $\frac{1}{120}$ b) $\frac{20}{120}$ c) 10   d) 20

Correct Answer: A B C D

Explanation:

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NOT HAPPENING

The probability of me winning at a game of chess is $\frac{1}{4}$. What is the probability that I **don't** win?

a) $\frac{1}{4}$ b) $\frac{3}{4}$ c) $\frac{1}{2}$ d) *likely*

Correct Answer: A B C D

Explanation:

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SPINNER

I spin the spinner below. What is the probability that I get a number **greater** than 3?

a) $\frac{5}{8}$ b) $\frac{6}{8}$ c) $\frac{5}{3}$ d) $\frac{3}{8}$

Correct Answer: A B C D

Explanation:

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EXPERIMENTS

A spinner has four **equal** sections on it; red, green, white and purple. I spin it 100 times and get the results in the table. Which of the following is **not** true.

Colour	Frequency
Red	35
Green	25
White	27
Purple	13

a) I got more reds because of luck
b) If I repeat the experiment more times, I expect the results to eventually even out
c) The spinner is definitely biased to red
d) The experimental probability of getting green is ¼

Correct Answer: A B C D

Explanation:

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