



GCSE Maths Takeaway 78 - Probability and Relatively Frequency

Name:.....

Date:.....

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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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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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 $\frac{1}{4}$

Correct Answer: A B C D

Explanation:

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Follow up Questions for Edexcel GCSE – June 2014 – Higher – Paper 2 (Calc) – Question 8a

Gaz asks 200 people at random how many hot Vimtos they have had in the last week. Here are the results:

Number of hot Vimtos	0	1	2	3	4	5	More than 5
Frequency	21	13	35	70	32	11	18

One person is chosen at random. What is the probability they had fewer than 3 hot Vimtos?

A $\frac{69}{100}$ B $\frac{69}{200}$
C $\frac{139}{200}$ D 69

Correct Answer: A B C D

Explanation:

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The probability of winning a game is 0.6. If you played this game 100 times, how many times would you expect to lose?



A 6 B 94
C 60 D 40

Correct Answer: A B C D

Explanation:

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