

A.S.21: Determine empirical probabilities based on specific sample data.

1. 060908ia, P.I. A.S.21

Students in Ms. Nazzeer's mathematics class tossed a six-sided number cube whose faces are numbered 1 to 6. The results are recorded in the table below.

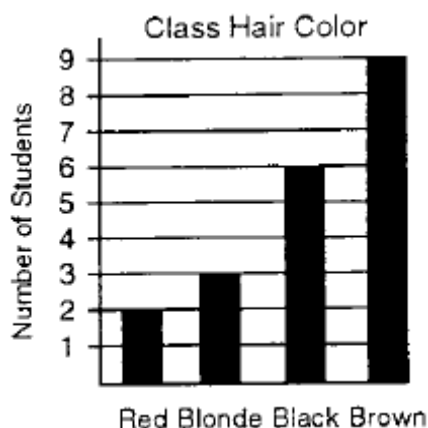
Result	Frequency
1	3
2	6
3	4
4	6
5	4
6	7

Based on these data, what is the empirical probability of tossing a 4?

- [A] $\frac{6}{30}$ [B] $\frac{8}{30}$ [C] $\frac{1}{30}$ [D] $\frac{5}{30}$

2. spring9821a, P.I. A.S.21

The graph below shows the hair colors of all the students in a class.



What is the probability that a student chosen at random from this class has black hair?

3. 010017a, P.I. A.S.21

The party registration of the voters in Jonesville is shown in the table below.

Registered Voters in Jonesville	
Party Registration	Number of Voters Registered
Democrat	6,000
Republican	5,300
Independent	3,700

If one of the registered Jonesville voters is selected at random, what is the probability that the person selected is *not* a Democrat?

- [A] 0.667 [B] 0.400
[C] 0.600 [D] 0.333

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[1] A _____

[2] Answer of $\frac{6}{20}$.

[1] Writing a fraction with the correct numerator of 6 but an incorrect denominator.

or [1] Writing a fraction with a correct denominator of 20 but an incorrect numerator.

or [1] Showing a fraction based on an error in reading the graph (of no more than 1 in the

numerator or the denominator) such as $\frac{5}{21}$ or

[2] $\frac{7}{19}$. _____

[3] C _____