Probabilities Quiz

* For #'s 1–4 please put your answer in fraction form.

① What is the probability of getting heads when flipping a coin?

② What is the probability of picking a King out of a standard deck of cards?

③ What is the probability of rolling an even number on a standard number cube?

④ The names Phil, Angelica, Yolanda, Mimi and Ed are on slips of paper in a hat. A name is drawn without looking. What is the probability of <u>not</u> drawing Ed.

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* For #'s 5–9 determine whether the probability of each event is impossible, unlikely, as likely as not, likely, or certain.

⑤ Picking a red marble from a bag containing 4 white marbles and 7 green marbles.

⑥ Rolling an odd number on a number cube containing numbers 1 through 6.

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(7) Drawing a vowel from letter tiles that spell out MATHEMATICS.

(8) Picking a 7 or higher from a standard deck of cards.

(9) Picking a number less than 15 from a jar with papers labeled from 1 to 12.

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* For #'s 10 - 12, please write your answer as a percentage rounded to the nearest whole percentage if necessary.

(10) What is the probability of drawing a heart from a standard deck of playing cards?

(11) What is the probability of rolling 3 or higher on a standard number cube?

(12) A bag contains 7 blue, 5 yellow, and 9 green marbles. What is the probability of picking a blue marble from the bag?

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(13) The experimental probability that Kevin will catch a fly ball is equal to $\frac{7}{8}$. About what percent of the time will Kevin catch a fly ball?

(A) 55% (C) 77%

(B) 66% (D) 88%

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(14) There are 4 jacks in a standard deck of 52 playing cards. If Patricia selects a card at random, what is the probability that it will be a jack? Hint: You may need to simplify

(A) $\frac{1}{52}$ (B) $\frac{1}{13}$ (C) $\frac{1}{2}$ (D) $\frac{12}{13}$

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(15) If the probability of an event is 0.99, which of the following best describes the event?

(A) The event will never occur.
(B) There is a small chance that the event will occur.
(C) The event is likely to occur.
(D) The event will definitely occur.

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(16) Morgan saw 10 blue, 8 red, and 42 white cars drive by her house in 1 hour. What is the experimental probability that the next car that drives by her house will not be a white car?

(A) 0.3 (B) 0.5 (C) 0.6 (D) 0.7

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(17) The experimental probability that Jessica will hit the ball when she is at bat is $\frac{2}{5}$. If she is at bat 50 times in a season, how many times can Jessica expect to hit the ball?

(A) 15 (C) 25
(B) 20 (D) 30

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