

TB(3B) Ch. 12 Introduction to Probability
Multiple Choice Questions

1. [16-17 S.3 Final Exam #8]

A letter is chosen at random from the word 'TRIANGLE'. What is the probability that it is a vowel?

- A. $\frac{1}{8}$ B. $\frac{1}{4}$
C. $\frac{3}{8}$ D. $\frac{1}{2}$

2. [16-17 S.3 Final Exam #18]

A dice is thrown twice. Find the probability that the sum of the numbers obtained is a prime number.

- A. $\frac{1}{3}$ B. $\frac{13}{36}$
C. $\frac{5}{12}$ D. $\frac{1}{2}$

3. [17-18 S.3 Final Exam #12]

A dice is thrown 3 times. Find the probability that all the numbers thrown are odd numbers.

- A. $\frac{1}{8}$
B. $\frac{8}{27}$
C. $\frac{4}{9}$
D. $\frac{1}{2}$

4. [17-18 S.3 Final Exam #23]

If a person takes 2 socks at the same time from 5 pairs of socks of different colours, what is the probability that the 2 socks are of the same colour?

- A. $\frac{1}{5}$
B. $\frac{1}{9}$
C. $\frac{1}{10}$
D. $\frac{1}{18}$

5. [17-18 S.3 Final Exam #24]

Bag A and bag B contains some balls. Bag A has 2 green balls and 1 yellow ball while bag B has 1 green ball and 1 yellow ball. If one ball is taken from bag B to bag A randomly, and then another ball is randomly drawn from bag A , find the expected number of green balls remaining in bag A .

- A. $\frac{15}{4}$
- B. $\frac{7}{4}$
- C. $\frac{7}{8}$
- D. $\frac{15}{8}$

6. [18-19 S.3 Final Exam #12]

A die is tossed 100 times. The results are recorded below:

Number	1	2	3	4	5	6
Frequency	9	20	25	27	x	3

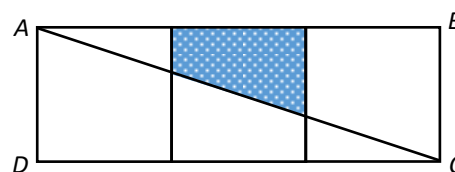
Find the experimental probability of getting a prime number.

- A. $\frac{41}{100}$
- B. $\frac{1}{2}$
- C. $\frac{61}{100}$
- D. $\frac{7}{10}$

7. [18-19 S.3 Final Exam #22]

In the figure, a rectangular dartboard $ABCD$ is formed by three identical squares. AC is a diagonal of the dartboard. Alice throws a dart at random and hits the dartboard. If the dart hits the shaded region, she will get \$24, otherwise she will get \$0. Find the expected value of the prize Alice will win.

- A. \$4
- B. \$5
- C. \$6
- D. \$8



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