

1. There are 10 pens and 8 pencils. 6 of the pens and 3 of the pencils are blue. One of them is drawn. Find the probability of drawing a pen or a blue element ?

- A) $\frac{13}{18}$ B) $\frac{17}{18}$ C) $\frac{3}{10}$ D) $\frac{3}{5}$ E) $\frac{9}{10}$

2. One dice and one coin are tossed. Find the probability that coin is tail and dice shows more than 4 ?

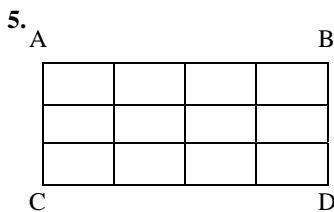
- A) $\frac{1}{6}$ B) $\frac{5}{6}$ C) $\frac{5}{12}$ D) $\frac{7}{12}$ E) $\frac{11}{12}$

3. A coin is tossed three times. What is the probability of getting at least one times head ?

- A) $\frac{1}{8}$ B) $\frac{3}{8}$ C) $\frac{5}{8}$ D) $\frac{7}{8}$ E) 1

4. An urn contains 4 white , 3 black marbles. Another urn contains 6 white, 4 black marbles. One marble is drawn from the first and it is placed in the second urn. If we draw one marble from the second urn , then find the probability of having a white marble ?

- A) $\frac{26}{55}$ B) $\frac{36}{55}$ C) $\frac{46}{77}$ D) $\frac{59}{77}$ E) $\frac{3}{5}$



$|AB| = 4$ units $|AC| = 3$ units.
 $[AB]$ and $[AC]$ are divided into 4 and 3 equal parts, respectively. One quadrilateral is selected at random from all quadrilaterals formed in the figure. What is the probability that the selected quadrilateral has an area 1 square unit ?

- A) $\frac{1}{15}$ B) $\frac{3}{5}$ C) $\frac{1}{5}$ D) $\frac{3}{10}$ E) $\frac{7}{15}$

6. A dice is tossed 3 times. If it is known that the dice showed 3, 4 and 6, what is the probability of having 3 in the first, 4 in the second and 6 in the third toss?

- A) $\frac{1}{3}$ B) $\frac{1}{4}$ C) $\frac{1}{6}$ D) $\frac{1}{8}$ E) $\frac{1}{12}$

7. Two numbers are chosen from the set $A = \{1, 2, 3, \dots, 9\}$. If it is known that the sum of these two numbers is an odd number, then what is the probability that one of them is 4?

- A) $\frac{1}{4}$ B) $\frac{1}{5}$ C) $\frac{1}{6}$ D) $\frac{1}{7}$ E) $\frac{1}{8}$

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