

MAH MCA CET 2025

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MATHS

Probability Worksheet for MAH MCA CET 2025

For students preparing for MCA Entrance Exam.

1. Six dice are thrown simultaneously. The probability that all of them show the same face, is
- A. $\frac{1}{6^6}$
B. $\frac{1}{6^5}$
C. $\frac{1}{6}$
D. None of these
2. Six dice are thrown simultaneously. The probability that all of them show the different faces, is
- A. $\frac{1}{6^5}$
B. $\frac{6!}{6^6}$
C. $\frac{1}{6!}$
D. $\frac{5!}{6^6}$
3. Six dice are thrown simultaneously. The probability that exactly three of them show the same face and remaining three show different faces, is
- A. $\frac{(5!)^2}{6^5}$
B. $\frac{5!}{2! 6^6}$
C. $\frac{(5!)^2}{2(6^6)}$
D. $\frac{5!}{2(6^6)}$
4. Three numbers are chosen from 1 to 30. The probability that they are not consecutive, is
- A. $\frac{142}{145}$
B. $\frac{144}{145}$
C. $\frac{143}{145}$
D. $\frac{1}{145}$
5. A die is tossed twice. The probability of having a number greater than 4 on each toss is
- A. $\frac{1}{3}$
B. $\frac{1}{9}$
C. $\frac{2}{3}$
D. $\frac{1}{12}$
6. Three different numbers are selected at random from the set $A = \{1, 2, \dots, 10\}$. The probability that the product of two of the numbers is equal to third is
- A. $\frac{3}{4}$
B. $\frac{1}{40}$
C. $\frac{1}{8}$
D. $\frac{39}{40}$
7. If $P(A) = \frac{1}{4}$, $P(B) = \frac{1}{2}$, $P(A \cup B) = \frac{5}{8}$, then $P(A \cap B)$ is
- A. $\frac{3}{8}$
B. $\frac{1}{8}$

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- C. 2/8
D. 5/8

8. A die is thrown twice and the sum of the numbers appearing is observed to be 6. The conditional probability that the number 4 has appeared at least once, is

- A. 3/5
B. 2/5
C. 5/36
D. 1/36

9. The probability that a leap year selected at random contains either 53 Sundays or 53 Mondays, is

- A. 2/7
B. 4/7
C. 3/7
D. 1/7

10. The probability of drawing a diamond card in each of the two consecutive draws from a well shuffled of cards, if the card drawn is not replaced after the first draw, is

- A. $\frac{4}{17}$
B. $\frac{13}{17}$
C. $\frac{1}{17}$
D. None of these

Answer Key

1. B	2. B	3. C	4. B	5. B	6. B	7. B	8. B	9. C	10. C
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