

HARI VIDYA BHAWAN

SESSION- 2020-2021

Subject- Mathematics

Class – 11th

Worksheet – 26

Chapter – 16

(Probability)

General Instructions :-

1. Complete these worksheets in Subject Notebook.
2. Complete this worksheets as your Final Term Exam. Marks would be given to those who complete it else you will have to go through pen paper test after the school reopens.
3. If you have any query related to worksheets ask your queries in whatsapp group between 8:30 am to 3:00 pm.
4. See video link/Video no. <https://www.youtube.com/watch?v=89ng2fSwuAQ> and book pdf (shared on the whatsapp group) in every worksheet as it will help you to understand the topic.

11. In a lottery, a person choses six different natural numbers at random from 1 to 20, and if these six numbers match with the six numbers already fixed by the lottery committee, he wins the prize. What is the probability of winning the prize in the game? [Hint order of the numbers is not important.]

12. Check whether the following probabilities $P(A)$ and $P(B)$ are consistently defined

(i) $P(A) = 0.5$, $P(B) = 0.7$, $P(A \cap B) = 0.6$

(ii) $P(A) = 0.5$, $P(B) = 0.4$, $P(A \cup B) = 0.8$

13. Fill in the blanks in following table:

	$P(A)$	$P(B)$	$P(A \cap B)$	$P(A \cup B)$
(i)	$\frac{1}{3}$	$\frac{1}{5}$	$\frac{1}{15}$...
(ii)	0.35	...	0.25	0.6
(iii)	0.5	0.35	...	0.7

14. Given $P(A) = \frac{3}{5}$ and $P(B) = \frac{1}{5}$. Find $P(A \text{ or } B)$, if A and B are mutually exclusive events.

15. If E and F are events such that $P(E) = \frac{1}{4}$, $P(F) = \frac{1}{2}$ and $P(E \text{ and } F) = \frac{1}{8}$, find

(i) $P(E \text{ or } F)$, (ii) $P(\text{not } E \text{ and not } F)$.

16. Events E and F are such that $P(\text{not } E \text{ or not } F) = 0.25$, State whether E and F are mutually exclusive.

17. A and B are events such that $P(A) = 0.42$, $P(B) = 0.48$ and $P(A \text{ and } B) = 0.16$. Determine (i) $P(\text{not } A)$, (ii) $P(\text{not } B)$ and (iii) $P(A \text{ or } B)$

18. In Class XI of a school 40% of the students study Mathematics and 30% study Biology. 10% of the class study both Mathematics and Biology. If a student is selected at random from the class, find the probability that he will be studying Mathematics or Biology.

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CLASS - XI

PHYSICAL EDUCATION

Worksheet - 33

Revision

GENERAL INSTRUCTIONS :

1. solve the worksheet in a separate notebook.
2. This is Revision worksheet

physical education book

- Q 1. Define Physical education
- Q. 2. Need of physical education in this era. Comment
- Q. 3. Define sports training.
- Q. 4. What do you mean by Dharna?