HARI VIDYA BHAWAN
SESSION- 2020-2021
Subject- Mathematics
Class – 12th
Worksheet – 56
Chapter – 13 (Probability)
Exercise – 13.2

General Instructions :-

1. Complete these worksheets in Subject Notebook.
2. Complete this worksheets as your Board Examination. 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 am – 3 pm.
4. All the students must download Meritnation app for all content related to chapter for completing worksheets.
5. See video link/Video no. https://www.youtube.com/watch?v=Xl_qGIqonlc&list=PLr6TOxpiWwuG9uRJ1kgfTBZU0T9adskXd and book pdf (shared on the whatsapp group) in every worksheet as it will help you to understand the topic.

---

7. Given that the events A and B are such that $P(A) = \dfrac{1}{2}$, $P(A \cup B) = \dfrac{3}{5}$ and $P(B) = p$. Find p if they are (i) mutually exclusive (ii) independent.

8. Let A and B be independent events with $P(A) = 0.3$ and $P(B) = 0.4$. Find
   (i) $P(A \cap B)$ (ii) $P(A \cup B)$
   (iii) $P(A|B)$ (iv) $P(B|A)$

9. If A and B are two events such that $P(A) = \dfrac{1}{4}$, $P(B) = \dfrac{1}{2}$ and $P(A \cap B) = \dfrac{1}{8}$, find P (not A and not B).

10. Events A and B are such that $P(A) = \dfrac{1}{2}$, $P(B) = \dfrac{7}{12}$ and $P(\text{not A or not B}) = \dfrac{1}{4}$. State whether A and B are independent ?

11. Given two independent events A and B such that $P(A) = 0.3$, $P(B) = 0.6$. Find
   (i) P(A and B)   (ii) P(A and not B)
   (iii) P(A or B)   (iv) P(neither A nor B)

12. A die is tossed thrice. Find the probability of getting an odd number at least once.

13. Two balls are drawn at random with replacement from a box containing 10 black and 8 red balls. Find the probability that
   (i) both balls are red.
   (ii) first ball is black and second is red.
   (iii) one of them is black and other is red.

HARI VIDYA BHAWAN

SESSION 2020-2021

CLASS - XII

PHYSICAL EDUCATION

WORSHEET - 64

Important Questions

GENERAL INSTRUCTIONS :

1. solve the worksheet in a separate notebook.

2. This is very important questions as per your board exams

physical education book

Q 1. What do you mean by speed?

Q. 2. Briefly discuss about OCD

Q. 3. Briefly discuss the concept of disability.

Q. 4. What are the effects of exercises on Muscular system?

HARI VIDYA BHAWAN
SESSION- 2020-2021
Subject- Mathematics
Class – 11th
Worksheet – 24
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.

EXERCISE 16.2

1. A die is rolled. Let E be the event "die shows 4" and F be the event "die shows even number". Are E and F mutually exclusive?

2. A die is thrown. Describe the following events:
   (i) A: a number less than 7   (ii) B: a number greater than 7
   (iii) C: a multiple of 3   (iv) D: a number less than 4
   (v) E: an even number greater than 4   (vi) F: a number not less than 3
   Also find $A \cup B$, $A \cap B$, $B \cup C$, $E \cap F$, $D \cap E$, $A - C$, $D - E$, $E \cap F'$, F'

3. An experiment involves rolling a pair of dice and recording the numbers that come up. Describe the following events:
   A: the sum is greater than 8, B: 2 occurs on either die
   C: the sum is at least 7 and a multiple of 3.
   Which pairs of these events are mutually exclusive?

4. Three coins are tossed once. Let A denote the event 'three heads show", B denote the event "two heads and one tail show", C denote the event" three tails show and D denote the event 'a head shows on the first coin". Which events are
   (i) mutually exclusive?   (ii) simple?   (iii) Compound?

5. Three coins are tossed. Describe
   (i) Two events which are mutually exclusive.
   (ii) Three events which are mutually exclusive and exhaustive.
   (iii) Two events, which are not mutually exclusive.
   (iv) Two events which are mutually exclusive but not exhaustive.
   (v) Three events which are mutually exclusive but not exhaustive.

HARI VIDYA BHAWAN

SESSION 2020-2021
CLASS - XI
PHYSICAL EDUCATION

Worksheet - 31

Revision

GENERAL INSTRUCTIONS :

1. solve the worksheet in a separate notebook.

2. This is Revision worksheet

physical education book

Q 1. What are the side effects of narcotics?

Q. 2. What do you mean by peptide hormones?

Q. 3. What is blood Doping?

Q. 4. Discuss the role of a leader.