HARI VIDYA BHAWAN
Date – 12/02/2021

PRACTICE WORKSHEET-68
SUBJECT – MATHEMATICS
CLASS – IX
CHAPTER- 14 and 15
(Statistics and Probability)
SESSION - (2020-21)

Instructions to be followed: -

1: -From now onwards students do your worksheets in your particular subject notebook respectively. Don't use rough sheets, old copies or anything else. All the stationary shops have already opened. So, you can purchase it.

2: - All the students must complete their worksheets as Periodic test marks will be given to those who completes it else you will have to go through pen paper test after the school reopens.

3: - Read each and every topic (which will be given in worksheets) of the chapters from NCERT books.

4: - All the students must purchase NCERT books as it will help you to understand the chapter.

5: - If you have any query related to worksheet, ask your queries in WhatsApp group between 8:00 am to 3:00 pm.

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1. The blood groups of 30 students of Class VIII are recorded as follows:

A, B, O, O, AB, O, A, O, B, A, O, B, A, O, O,

A, AB, O, A, A, O, O, AB, B, A, O, B, A, B, O.

Represent this data in the form of a frequency distribution table. Which is the most common, and which is the rarest, blood group among these students?

2. The heights of 50 students, measured to the nearest centimeters, have been found to be as follows:

161	150	154	165	168	161	154	162	150	151
162	164	171	165	158	154	156	172	160	170
153	159	161	170	162	165	166	168	165	164
154	152	153	156	158	162	160	161	173	166
161	159	162	167	168	159	158	153	154	159

(i) Represent the data given above by a grouped frequency distribution table, taking the class intervals as 160 – 165, 165 – 170, etc.

(ii) What can you conclude about their heights from the table?

3. A survey conducted by an organization for the cause of illness and death among the women between the ages 15 – 44 (in years) worldwide, found the following figures (in %):

S.No.	Causes	Female fatality rate (%)
1.	Reproductive health conditions	31.8
2.	Neuropsychiatric conditions	25.4
3.	Injuries	12.4
4.	Cardiovascular conditions	4.3

5.	Respiratory conditions	4.1
6.	Other causes	22.0

(i) Represent the information given above graphically.

(ii) Which condition is the major cause of women's ill health and death worldwide?

4. Given below are the seats won by different political parties in the polling outcome of a state assembly elections:

Political party	A	B	C	D	E	F
Seats won	75	55	37	29	10	37

(i) Draw a bar graph to represent the polling results.

(ii) Which political party won the maximum number of seats?

5. Two coin are tossed 400 times and we get two heads:112 times; one head :160 times; 0 head :128 times. When two coins are tossed at random, what is the probability of getting
(i) 2 heads? (ii)1 head? (iii)0 head?

6. A die is thrown 300 times and the outcomes are noted as given below:

Outcome	1	2	3	4	5	6
frequency	60	72	54	42	39	33

When a die is thrown at random, what is the probability of getting a
(i) 3? (ii) 6? (iii) 5? (iv)1?

7. The percentages of marks obtained by a student in six unit tests are given below:

Unit test	I	II	III	IV	V	VI
Percentage of marks obtained	53	72	28	46	67	59

A unit test is selected at random. What is the probability that the student gets more than 60% marks in the test?

8. On a particular day, at a crossing in a city, the various types of 240 vehicles going past during a time interval were observed as under:

Type of vehicles	Two-wheelers	Three-wheelers	Four -wheelers
Frequency	84	68	88

Out of these vehicles, one is chosen at random. What is the probability that the chosen vehicle is a two-wheeler?

For Solutions (Q1 to Q4): https://byjus.com/ncert-solutions-class-9-maths/chapter-14-statistics/

For Solutions (Q5 to Q8): https://www.topperlearning.com/r-s-aggarwal-and-v-aggarwal-solutions/cbse-class-9-mathematics/r-s-aggarwal-and-v-aggarwal-mathematics-ix/probability

HARI VIDYA BHAWAN

SUBJECT- SOCIAL SCIENCE

CLASS – IX

SESSION – 2020 – 21

WORK SHEET - 68

Date –12-02-2021

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Chapter 4 Climate

Long Answer Questions:

1. What are the major controls of the climate of a place? Explain them.
2. Give the characteristics and effects of Monsson rainfall in India.
3. What are the features of advancing monsoon?
4. What causes rainfall during winters in north-western part of India?

दिनांक : 12/2/21

सामान्य निर्देश

1)प्रस्तुत कर अपनी हिंदी व्याकरण की कार्यपुस्तिका में कीजिए।

2)सभी विद्यार्थियों को परीक्षा हेतु यह कार्य करना अनिवार्य है।

3)वर्कशीट में दिए गए पाठ को ध्यानपूर्वक पढ़िए।

पाठ- 3 टोपी शुक्ला(संचयन)

प्रश्न 1. इफ्फन टोपी शुक्ला की कहानी का महत्वपूर्ण हिस्सा किस तरह से है ?

प्रश्न 2. इफ्फन की दादी अपने पीहर क्यों जाना चाहती थी?

प्रश्न 3.इफ्फन की दादी अपने बेटे की शादी में गाने बजाने की इच्छा पूरी क्यों नहीं कर पाई?

प्रश्न 4.अम्मी शब्द पर टोपी के घर वालों की क्या प्रतिक्रिया हुई?

प्रश्न 5. दस अक्टूबर सन पैंतालीस का दिन टोपी के जीवन में क्या महत्व रखता है?

प्रश्न 6. टोपी ने इफ्फन से दादी बदलने की बात क्यों कही?

प्रश्न 7 पूरे घर में इफ्फन को अपनी दादी से ही विशेष स्नेह क्यों थ?

प्रश्न-8.इफ्फन की दादी के मायके का घर का कस्टोडियन में क्यों चला गया?

HARI VIDYA BHAWAN
Worksheet-68
Class-X
Subject-Science
Session-2020-21
(Practice Questions)

Date: 12/02/2021

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Short Answer Type Questions:

Q.1 Which protein digesting enzyme is present in pancreatic juice ?

Q.2 What happens if DNA copying is not perfectly accurate?

Q.3 You have four solutions A, B, C and D. The pH of solution A is 6, B is 9, C is 12 and D is 7,
   (a) Identify the most acidic and most basic solutions.
   (b) Arrange the above four solutions in the increasing order of H^+ ion concentration.

Q.4 What is a rainbow? Draw a labelled diagram to show the formation of rainbow.

Q.5 State the role of pancreas in digestion of food.

Q.6 What would be the consequences of deficiency of hemoglobin in your body?

Long Answer Type Questions:

Q.7 An electric bulb of resistance 200Ω draws a current of 1 Ampere. Calculate the power of the bulb the potential difference at its ends and the energy in kWh consumed burning it for 5h.

Q.8 The atomic number of an element is 16. Predict

1. the number of valence electrons in its atom
2. its valency
3. its group number
4. whether it is a metal or a non- metal
5. the nature of oxide formed by it

Q. 9 An object 2 cm in size is placed 30 cm in front of a concave mirror of focal length 15 cm. At what distance from the mirror should a screen be placed in order to obtain a sharp image? What will be the nature and the size of the image formed? Draw a ray diagram to show the formation of the image in this case

Q.10 (a) Draw a diagram showing germination of pollen on stigma of a flower.
   (b) Label pollen grain, male germ- cells, pollen tube and female germ-cell in the

   above diagram.
   (c) How is zygote formed?

Note –
➢ This worksheet is for your self assessment. To solve the above questions read all the notes and NCERT books & try to answer them.
➢ All the practice worksheets have to be done in same notebook wherever you are writing notes.