

8 CLASS MATH TUITION ASSIGNMENT

Assignment – 5

Chapter = Data Handling

Submission Date = 15 July 2022

MM = 20

Q1. From a well shuffled deck of 52 playing cards, a card is selected at random.
Find the probability of getting

- (i) a black card
- (ii) a black king
- (iii) an ace
- (iv) a card of diamond

Q2. The number of students in a hostel, speaking different languages is given below. Display the data in a pie chart.

Language	Hindi	English	Marathi	Tamil	Bengali	Total
No. of students	40	12	9	7	4	72

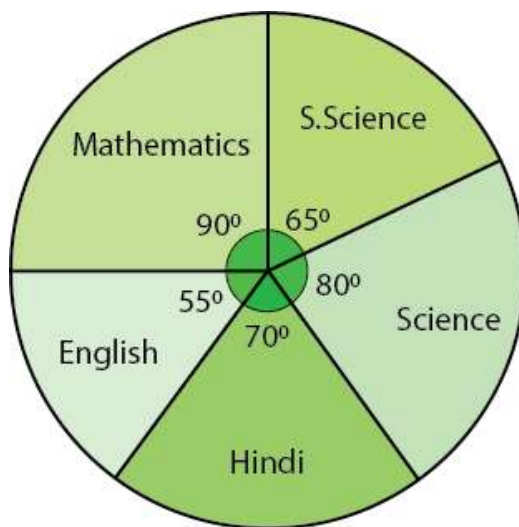
Q3. Three coins are tossed together. Find the probability of getting:

- (i) exactly two heads
- (ii) at least two heads
- (iii) at least one head and one tail
- (iv) no tails

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Q4. The adjoining pie chart gives the marks scored in an examination by a student in Hindi, English, Mathematics, Social Science and Science. If the total marks obtained by the students were 540, answer the following questions.

- (i) In which subject did the student score 105 marks?
- (ii) How many more marks were obtained by the student in Mathematics than in Hindi?
- (iii) Examine whether the sum of the marks obtained in Social Science and Mathematics is more than that in Science and Hindi.



Q5. A card is drawn at random from a pack of 52 cards. Find the probability that the card drawn is:

- (i) a black king
- (ii) either a black card or a king
- (iii) neither a red card nor a queen
- (iv) other than an ace
- (v) a spade
- (vi) a black card

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(vii) jack

(viii) the ace of spades

Q6. If you put 21 consonants and 5 vowels in a bag. What would carry greater probability? Getting a consonant or a vowel? Find each probability?

Q7. Given below is the frequency distribution of the heights of 50 students of a class:

Class Interval	140 – 145	145 – 150	150 – 155	155 – 160	160 – 165
Frequency	8	12	18	10	5

Draw a histogram representing the above data.

Q8. Construct a frequency table for the following marks obtained by 50 students using equal Intervals taking 16-24 (24 not included) as one of the class-intervals.

52, 16, 18, 20, 42, 48, 39, 38, 54, 58, 47, 37, 25, 16, 42, 49, 36, 35, 53, 21, 30, 43, 56, 34, 33, 17, 22, 24, 37, 41, 40, 50, 54, 56, 54, 36, 38, 42, 44, 56, 17, 18, 22, 24, 17, 48, 58, 23, 29, 58

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Q9. The marks scored by 20 students in a test are given below:
54, 42, 68, 56, 62, 71, 78, 51, 72, 53, 44, 58, 47, 64, 41, 57, 89, 53, 84, 57.
Complete the following frequency table:

(Marks in class intervals)	Tally marks	Frequency (No. of children)
40-50		
50-60		
60-70		
70-80		
80-90		

Q10. Construct a frequency table for the following weights (in gm) of 35 mangoes using the equal class intervals, one of them is 40-45 (45 not included) :

30, 40, 45, 32, 43, 50, 55, 62, 70, 70, 61, 62, 53, 52, 50, 42, 35, 37, 53, 55, 65, 70, 73, 74, 45, 46, 58, 59, 60, 62, 74, 34, 35, 70, 68.

(i) What is the class mark of the class interval 40-45?

(ii) What is the range of the above weights?

(iii) How many classes are there?