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EXERCISE 15.1 - Question No. 1

In a cricket match, a bats woman hits a boundary 6 times out of 30 balls she plays. Find the probability that she did not hit a boundary.

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EXERCISE 15.1 - Question No. 2

1500 families with 2 children were selected randomly, and the following data were recorded:

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EXERCISE 15.1 - Question No. 3

Refer to Example 5, Section 14.4, Chapter 14. Find the probability that a student of the class was born in August.

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EXERCISE 15.1 - Question No. 4

Three coins are tossed simultaneously 200 times with the following frequencies of different outcomes:

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EXERCISE 15.1 - Question No. 5

An organisation selected 2400 families at random and surveyed them to determine a relationship between income level and the number of vehicles in a family. The information gathered is listed in the table below: `M o n t h l y \ I n c o m e V e

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EXERCISE 15.1 - Question No. 6

Refer to Table 14.7, Chapter 14. (i) Find the probability that a student obtained less than 20% in the mathematics test. (ii) Find the probability that a student obtained marks 60 or above.

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EXERCISE 15.1 - Question No. 7

To know the opinion of the students about the subject statistics, a survey of 200 students was conducted. The data is recorded in the following table.

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EXERCISE 15.1 - Question No. 8

Refer to Q.2, Exercise 14.2. What is the empirical probability that an engineer lives: (i) less than 7 km from her place of work? (ii)

more than or equal to 7 km from her place of work? (iii) within $\frac{1}{2}$ km from her place of work?

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EXERCISE 15.1 - Question No. 11

Eleven bags of wheat flour, each marked 5 kg, actually contained the following weights of flour (in kg): 4.97, 5.05, 5.08, 5.03, 5.00, 5.06, 5.08, 4.98, 5.04, 5.07, 5.00 Find the probability that any of these bags chosen at random contains more than 5 kg of flour.

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EXERCISE 15.1 - Question No. 13

In Q.1, Exercise 14.2, you were asked to prepare a frequency distribution table regarding the blood groups of 30 students of a class. Use this table to determine the probability that a student of this class, selected at random, has blood group AB.

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SOLVED EXAMPLES - Question No. 1

A coin is tossed 1000 times with the following frequencies: Head : 455, Tail : 545 Compute the probability for each event.

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SOLVED EXAMPLES - Question No. 2

Two coins are tossed simultaneously 500 times, and we get Two heads : 105 times One head : 275 times No head : 120 times Find the probability of occurrence of each of these events.

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SOLVED EXAMPLES - Question No. 3

A die is thrown 1000 times with the frequencies for the outcomes 1, 2, 3, 4, 5 and 6 as given in the following table :

Outcome	1	2	3	4	5	6
Frequency	179	150	157	149	175	190

Find the probability of getting each outcome.

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SOLVED EXAMPLES - Question No. 4

On one page of a telephone directory, there were 200 telephone numbers. The frequency distribution of their unit place digit (for example, in the number 25828573, the unit place digit is 3) is given in Table: Without looking at the page, the pencil is placed on one of the numbers i.e the number is chosen at random. What is the probability that the digit in its unit place is 6?

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SOLVED EXAMPLES - Question No. 5

The record of a weather station shows that out of the past 250 consecutive days, its weather forecasts were correct 175 times. (i)

What is the probability that on a given day it was correct? (ii) What is the probability that it was not correct on a given day?

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SOLVED EXAMPLES - Question No. 6

A tyre manufacturing company kept a record of the distance covered before a tyre needed to be replaced. The table shows the results of 1000 cases.

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SOLVED EXAMPLES - Question No. 7

The percentage of marks obtained by a student in the monthly unit tests are given below. Based on this data, find the probability that the student gets more

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SOLVED EXAMPLES - Question No. 8

An insurance company selected 2000 drivers at random (i.e., without any preference of one driver over another) in a particular city to find a relationship between age and accidents. The data obtained are given in the following table: `A g e\ o

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SOLVED EXAMPLES - Question No. 9

Consider the frequency distribution table (Table 14.3, Example 4, Chapter 14), which gives the weights of 38 students of a class. (i) Find the probability that the weight of a student in the class lies in the interval 46-50 kg. (ii) Give two events in this context, one having probability 0 and the other having probability 1.

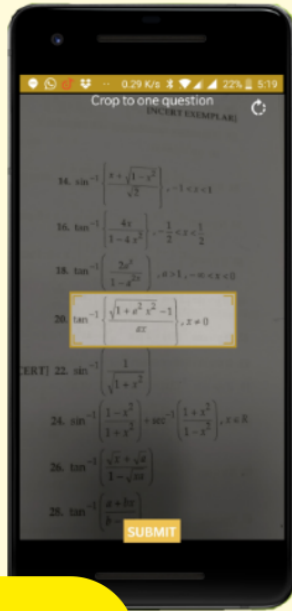
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SOLVED EXAMPLES - Question No. 10

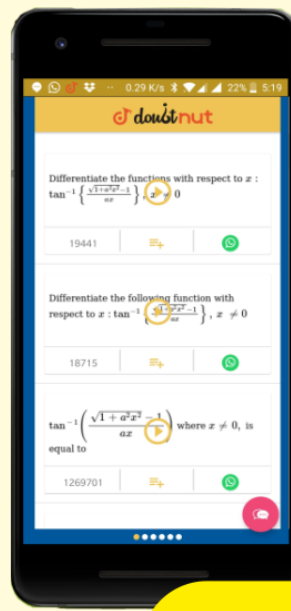
Fifty seeds were selected at random from each of 5 bags of seeds, and were kept under standardised conditions favourable to germination. After 20 days, the number of seeds which had germinated in each collection were counted and recorded as follo

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