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**Probability**

**Homework**

**Problems**

# **Probability Homework Problems**

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~~Probability~~

~~Example Problems~~

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Probability -

Example 1

*Calculating*

*conditional*

*probability |*

*Probability and*

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Statistics |

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Probability

Using a Table:

Pass a Course

and Doing

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Explained

Through Word

Problems! | Exam-

Style Questions

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**Probability**

**With  
Venn Diagrams**

**\u0026**

**Contingency**

**Tables**

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~~Probability,~~

~~part 1 128 1.8.a~~

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~~Probability With~~

~~Tables | Chance~~

~~of an Orange~~

~~M\u0026M???~~

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**Probability**

**Probability -**

**Part 3 - Word**

**Problems!** ~~How to~~

~~Calculate~~

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~~Probability~~

*Conditional*

*Probability*

*Problem Example*

*1 Conditional*

*Probability in*

*Venn Diagrams :*

*Exam Solutions*



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Probability

Explained:

Visual Intuition

Bayes' Theorem

Example:

Surprising False

Positives

Multiplication

& Addition

Rule

Probability

Mutually

Exclusive &

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~~Probability~~

~~Events~~

~~Homework~~  
*Probability*

~~Problems~~  
*Lesson 5:*

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*Probability and*

*Multiplication*

*Law of*

*Probability*

**Probability:**

**\ "Or\ " and**

**\ "And\ "**

**Probabilities**

~~Solving Word~~

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~~Probability with  
Venn Diagrams,  
part 2~~

~~127-1.21.b 2.~~

Conditioning and  
Bayes' Rule

~~Bayes' Theorem~~

~~Example: A~~

~~disjoint union~~

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Probability

Example

*Dependent Events*

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*Probability*

conditional

probability

problems with

solutions Ex:

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Probability

Using a Table

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*Probability Day*

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*Probability +*

*Independent vs*

*Dependent Events*

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*Probability*

*Probability with  
Tree Diagrams*

*Intro to*

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*Probability*

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**Probability -**

**Choosing without  
replacement**

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*Problem 1*

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worksheets, 5-a-  
day and much  
more

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Probability

Homework

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## Conditional

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In this homework we'll be investigating conditional probability models, with a focus on various interpretations of logistic regression, with and without regularization. Along the way we'll dis- cuss



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Probability

Conditional  
Probability

Homework

Problems

The conditional  
probability is

$2/6$ . b. Let  $A_6$  = event first is a six and  $S_k$  = event the sum is  $k$ . Now  $A_6 \cap S_k = \emptyset$  for  $k \leq 6$ . A table of sums

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shows  $P(A \cap S_k) = 1/36$  and  $P(S_k) = 6/36, 5/36, 4/36, 3/36, 2/36, 1/36$  for  $k = 7$  through  $12$ , respectively.

3.2: Problems on  
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CONDITIONAL  
PROBABILITY  
PROBLEMS WITH  
SOLUTIONS

Problem 1 : A  
problem in  
Mathematics is  
given to three  
students whose  
chances of  
solving it are  
 $\frac{1}{3}$ ,  $\frac{1}{4}$  and  $\frac{1}{5}$   
(i) What is the  
probability that

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the problem is  
solved? (ii)

What is the  
probability that  
exactly one of  
them will solve  
it?

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Probability  
Problems with  
Solutions  
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Homework

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Probability

Problems

Examples. Using  
the formula,  $P(R$   
 $jB 1) = P(R.$

Solution: The  
sample space  $S$   
would consist of  
all the numbers  
possible by the  
combination of  
two dies. Tree  
diagrams and  
conditional

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Probability.

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Homework



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## Conditional

### Probability

#### Examples

#### Homework

#### Problems

This is a conditional probability problem where  $P(B | A) = \frac{P(A \text{ and } B)}{P(A)}$ . Assume that the test for some disease is 99% accurate. If somebody

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tests positive  
for that...

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Questions and  
Answers |  
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A and B are  
conditionally  
independent  
given  $C_i$ , for  
all  $i \in \{1, 2, \dots, M\}$ ; B is

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## Conditional

independent of all  $C_i$ 's. Prove that A and B are independent.

Solution. Since the  $C_i$ 's form a partition of the sample space, we can apply the law of total

probability for

$$A \cap B: P(A \cap B) = \sum_i P(A \cap B | C_i) = \sum_i P(A | C_i) P(B | C_i) = \sum_i P(A) P(B) = P(A) P(B)$$

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(  $P(A \cap B | C) = P(A \cap B) / P(C)$  )

Homework

Problems

Solved Problems

Conditional

Probability

4 CONDITIONAL

PROBABILITY Do

the following

problems using

the conditional

probability

formula:  $P(A \cap B) = P(A|B) \cdot P(B)$

$P(A|B) = P(A \cap B) / P(B)$

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P(B). Exercise 77 (Solution on p. 18.) A card is drawn from a deck. Find the conditional probability of P(a queen | a face card).

Exercise 78 A card is drawn from a deck. Find the conditional

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probability of P  
(a queen j a  
club ).

Problems

Probability:

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This online  
proclamation

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one of the

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accompany you  
with having  
extra time. It  
will not waste  
your time. admit  
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In probability theory, conditional probability is a measure of the probability of an event occurring, given that another event has already occurred. If the event of interest is A

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## Conditional

and the event B is known or assumed to have occurred, "the conditional probability of A given B", or "the probability of A under the condition B", is usually written as  $P(A|B)$ , or sometimes  $P_{B|A}$  or  $P_{B|A}$ . For example,

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Probability  
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the probability  
that any given  
person has a  
cough on any  
given day may be  
only 5%. But if  
we know or  
assume that t

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probability -  
Wikipedia

The problem asks  
to find a

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## Conditional

### Probability

probability of  
getting the sum  
of 5 under the  
condition that

this sum is  
EITHER "5" OR

"7". Notice that  
the events

"getting the sum  
of 5" and

"getting the sum  
of 7" are

DISJOINT.

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Therefore, this conditional probability is =  
= = =  $0.4 = 40\%$ .

ANSWER My other lessons on Probability in this site are

Lesson  
Conditional probability problems -  
Algebra

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Probability  
Conditional  
Probability. How  
To Find The  
Conditional  
Probability From  
A Word Problem?  
Step 1: Write  
out the  
Conditional  
Probability  
Formula in terms  
of the problem  
Step 2:

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Substitute in the values and solve. Example: Susan took two tests. The probability of her passing both tests is 0.6. The probability of her passing the first test is 0.8.

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Probability

(video lessons,  
examples and ...

In this homework

we'll be

investigating

conditional

probability

models, with a

focus on various

interpretations

of logistic

regression, with

and without



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regularization.

Along the way we'll discuss the calibration of probability predictions, both in the limit of infinite training data and in a more bar e-handway.

Homework 5:

Conditional

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## Conditional

### Probability

#### Models

Homework  
Problems

Let's look at  
some other

problems in  
which we are  
asked to find a  
conditional  
probability.

Example 1: A jar  
contains black  
and white  
marbles. Two  
marbles are

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Probability  
Homework  
Problems

chosen without replacement. The probability of selecting a black marble and then a white marble is 0.34, and the probability of selecting a black marble on the first draw is 0.47.

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Probability

Probability -

Math Goodies

2 What is the

probability that

a randomly

selected student

is girl who does

not study

French? Exercise

7. A car

workshop knows

that on an

average morning:

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Probability  
Homework  
Problems

three cars with electrical problems, eight with mechanical problems and three with sheet metal problems arrive at the shop for service.

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Problems |

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Superprof

Statistics Q&A

Homework

Library

Problems

Contingency

Tables and

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Probability:

Homework and

Passing a Course

A teacher

categorized

students by

whether they

regularly

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Probability  
Homework  
Problems

completed their homework (or not) and whether they passed the course (or not).

The data are in the table below.

	Completed HW	Did not Complete HW	Total
Passed the Course	23	6	29
Did not Pass the Course	6	18	24
Total	29	24	53

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student from ...

Homework

Answered:

Contingency

Tables and

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bartleby

The Dog Ate My

Homework - this

is an

introduction to

conditional

probability,

aimed at 12-14



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Problems

year-olds. A practical experiment using dice and multi-link cubes gives data which can be used to answer questions like 'What is the chance that a student who is not lying about their homework is nevertheless

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Probability Is

Important for  
All Students!

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Probability can  
be calculated as  
Probability of A  
intersection B,  
divided by the  
probability of  
event B.  $P(A |$

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$P(A|B) = P(A \cap B) / P(B)$  Let us start to analyze this problem when the contestant has chosen door 1. We assume that  $P(\text{prize door } i) = \frac{1}{3}$ , for  $i = 1, 2, 3$

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Probability

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