

SUBJECT 101: Homework #0

John Q. Public

Due March 14, 2019

This is a sample of Simon Andrews's homework template for L^AT_EX. This part of the file is a space for you to put whatever you want, such as acknowledgements or notes to the instructors. In this sample, I'll be putting a quick demo for how to use this template.

For every problem in the problem set, create a new .tex file and use the `\input` command to include its contents in this main.tex file. Each problem file should have this structure:

```
% Problem statement
\begin{problem}{N.N.N}
Jane has 2 apples and Jack has 3 apples. How many apples do both of them have
\begin{enumerate}
  \item if Jane eats 1 apple, and
  \item if Jack eats 2 apples?
\end{enumerate}
\end{problem}

% Solution
\begin{solution}

% Common stuff useful for all problems.
Jane and Jack together have 5 apples.

% Solution for part A
\begin{solutionpart}{A}
If Jane eats 1 apple, Jane and Jack together have  $5 - 1 = 4$  apples.
\end{solutionpart}

% Solution for part B
\begin{solutionpart}{B}
If Jack eats 2 apples, Jane and Jack together have  $5 - 2 = 3$  apples.
\end{solutionpart}

\end{solution}
```

Problem 1.1.1

Jane has 2 apples and Jack has 3 apples. How many apples do both of them have

- (a) if Jane eats 1 apple, and
- (b) if Jack eats 2 apples?

Solution

Jane and Jack together have 5 apples.

Part A

If Jane eats 1 apple, Jane and Jack together have $5 - 1 = 4$ apples.

Part B

If Jack eats 2 apples, Jane and Jack together have $5 - 2 = 3$ apples.