# Generating questions and solutions documents from the same R Markdown document

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#### Introduction

• This example R Markdown document demonstrates how to include questions and answers in the same Rmd document.

## Questions

- I have designed the question sheet to be compiled as the pdf\_document output.
- To generate pdf output you need the TinyTeX package installed, install.packages('tinytex').
- Paragraph text for questions is written in standard R Markdown syntax, which can include LaTeX maths and code chunks.
- In questions, R code chunks for which you want to see the code or output or both require the chunk option include=TRUE, i.e.

```
```{r, include=TRUE}
...code...
```

### **Solutions**

- I have chosen to render the solutions as the html\_document output but any output format could be used.
- Paragraph text for solutions go in asis code chunks, i.e.

```
``{asis}
...Text explaining the answer ...
```

• R code chunks for solutions are included as normal, i.e.

```
```{r}
...Code for answer...
```

• You can use your preferred R Markdown syntax for laying out your questions. I often use simple section headers, e.g.

#### # Question 1

• For numbered sections add the option number\_sections: true to the output in the YAML header.