````
---
title: "Diamond sizes"
author: "Dhairya Patel"
date: "2021"
output:
  pdf_document: default
  html_document: default
---

``` {r, echo = FALSE}
#Note, Each gray box below is a code chunk. You need to insert a code chunk
and put your R code in it. By setting echo = FALSE. this comment and any code
will not show in my output document. If it were TRUE, the comment and code
would appear.
```

```{r setup, include = FALSE}
#The include = FALSE function hides both the code and output in my output
document

#You need to install these packages first to be able to use the functions
within them. You can install them from the Tools tab or write a new code
chunk: install.packages("package_name").
library(ggplot2)
library(dplyr)
```

```{r, include = FALSE}
#this next line is creating a subset called 'smaller' of the diamonds data
smaller <- diamonds %>%
  filter(carat <= 2.5)
```

```{r, echo = FALSE}
#This next chunk is inline code. Inline code puts the text with the output of
the function in my document.
```

We have data about `r nrow(diamonds)` diamonds. Only
`r nrow(diamonds) - nrow(smaller)` are larger than
2.5 carats. The distribution of the remainder is shown
below:

``` {r, echo = FALSE}
#This next code chunk will make a plot in our output doc
```

```{r, echo = FALSE}
smaller %>%
  ggplot(aes(carat)) +
  geom_freqpoly(binwidth = 0.01)
```

```{r, echo = FALSE}
````
````

```
#Once all of my code has been written, I click on the Knit button in the tool bar above to produce my document.
```