

## R Girls School



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title: "Generating Sequences Part 1"

author: "Type your name here"

date: "`r format(Sys.time(), '%d %B, %Y')`"

output: html\_document

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```{r setup, include=FALSE}

knitr::opts\_chunk\$set(echo = TRUE)

library(tidyverse)

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### KS3: Generating Sequences Part 1

### Lesson objectives

Generating sequences using R code

### Success criteria

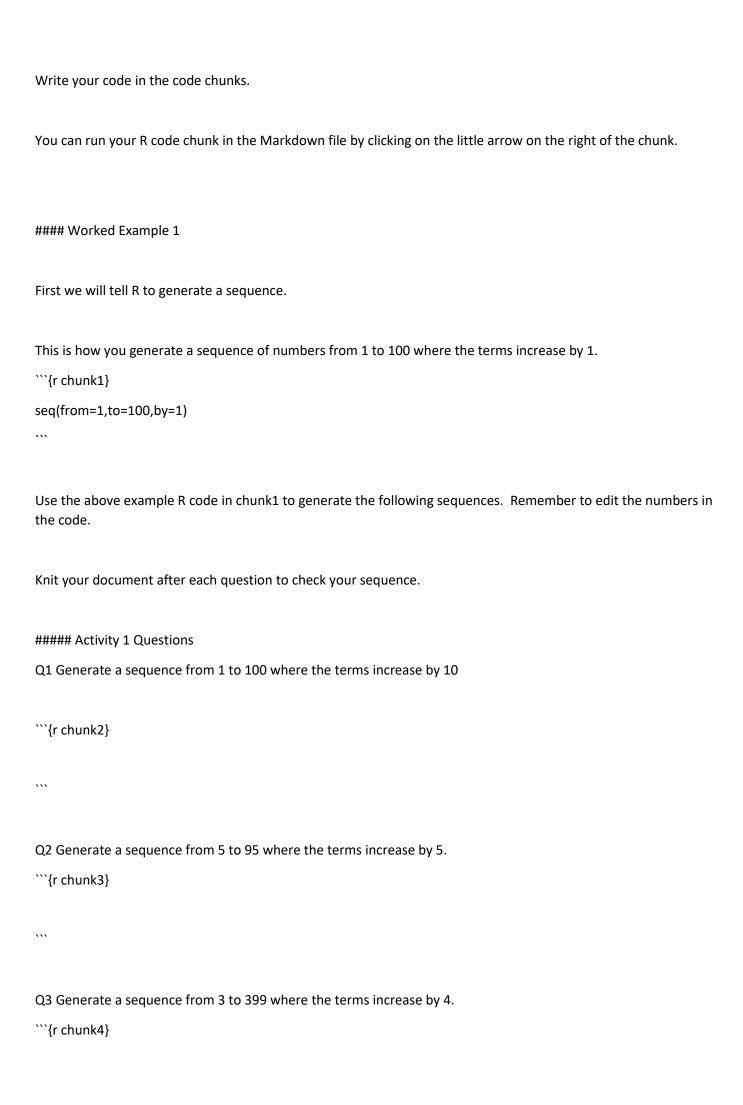
\* Generate different sequences using R code

## ### Keywords

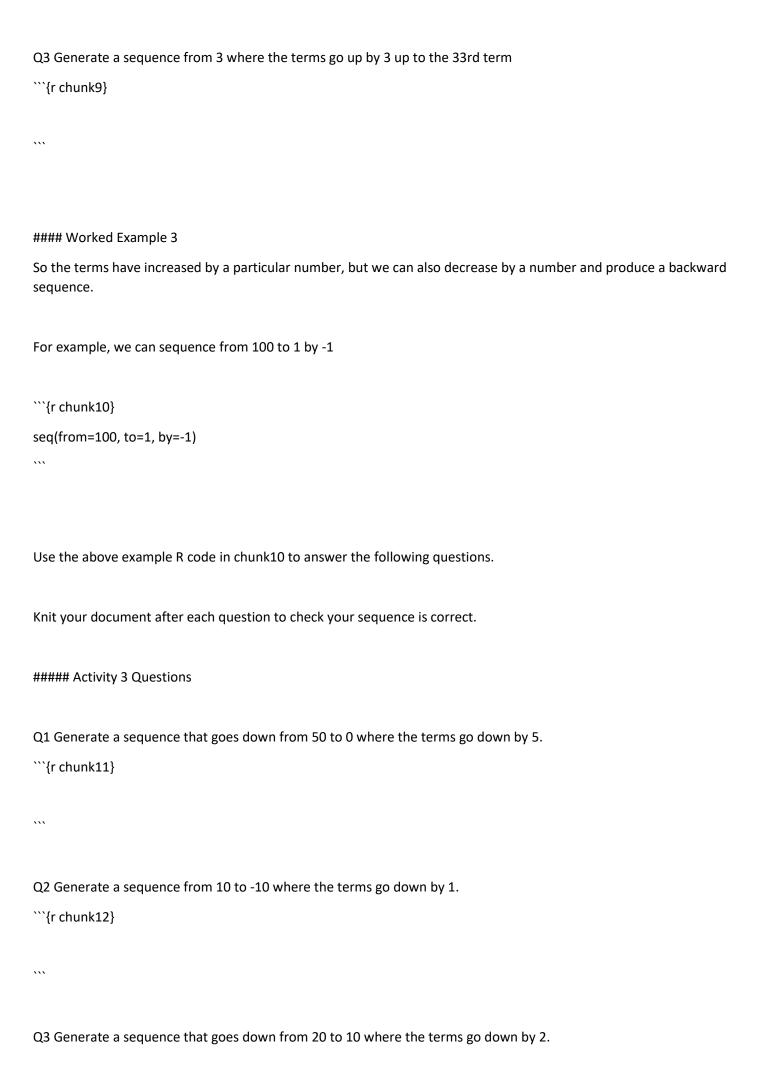
- \* sequence
- \* term = the numbers in the sequence
- \* nth term

## ### Remember

Knit your R markdown document frequently. Knit for the final time when you have completed the lesson. This final output file will be the one your teacher marks.



| Q4 Generate a sequence from 1 to 9 where the terms increase by 3.                                                            |
|------------------------------------------------------------------------------------------------------------------------------|
| ```{r chunk5}                                                                                                                |
|                                                                                                                              |
|                                                                                                                              |
|                                                                                                                              |
| #### Worked Example 2                                                                                                        |
| Now we will generate a sequence that starts from a number and goes up to the nth term, where the nth term is for example 10. |
| For example a sequence from 1 where the terms go up by 1 till the 10th term.                                                 |
| ```{r chunk6}                                                                                                                |
| seq(from=1, length.out=10, by=1)                                                                                             |
|                                                                                                                              |
| Use the above example R code in chunk6 to generate the following sequences.                                                  |
| Knit your document after each question to check your sequence.                                                               |
| ##### Activity 2 Questions                                                                                                   |
| Q1 Generate a sequence from 1 where the terms go up by 4 up to the 100th term                                                |
| ```{r chunk7}                                                                                                                |
|                                                                                                                              |
| Q2 Generate a sequence from 5 where the terms go up by 10 up to the 89th term                                                |
| ```{r chunk8}                                                                                                                |
|                                                                                                                              |



| ```{r chunk14}                                                                      |
|-------------------------------------------------------------------------------------|
|                                                                                     |
|                                                                                     |
|                                                                                     |
|                                                                                     |
| KNIT YOUR DOCUMENT for the final time. This will be the version your teacher marks. |

## THE END