# PEN SIZE CHALLENGE

Extends **Investigation 1**. Use the Beetle sprite from the project **2-Drawing Numerals.**

► Use different pen sizes. On top of the big dots or thick lines draw another dot or line using the same colour as the backdrop (e.g. white). Create your own designs. Below are some examples.
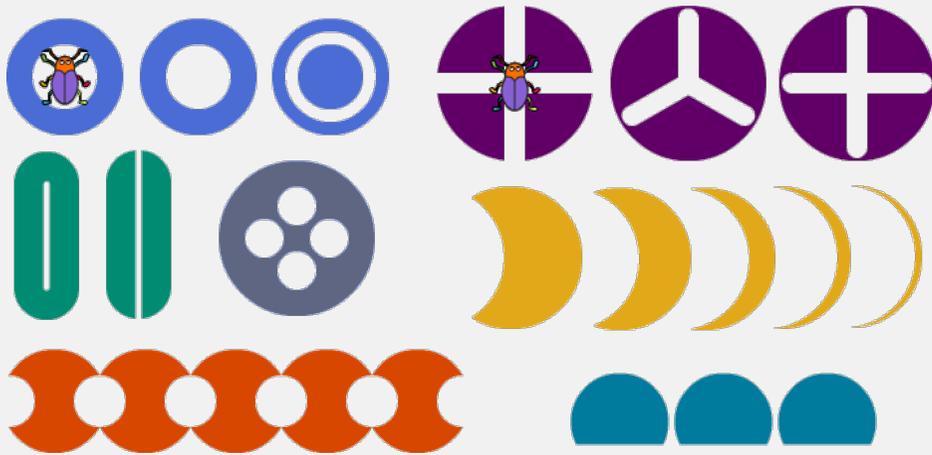
► Build a script to draw a stop-watch with just a second hand. Hide the Beetle by using the **hide** block (to get it back use **show**).
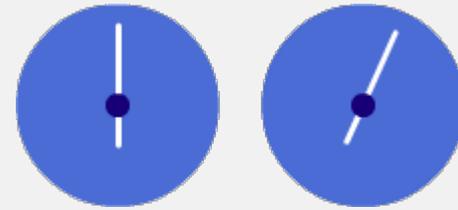
Then explore the following extension:

► give your script a name (define a new block) e.g. **second hand**,
► build a **forever** script which will draw the **second hand**, then **wait 1 secs**, then turn the Beetle right by the correct angle, and repeat this... forever. Your real stop-watch measuring seconds!

Extends **Investigation 3**. Use the Beetle sprite from the project **2-Dots and Dashes.**

► Explore in detail the difference between these blocks:

`set pen size to ◯`   `change pen size by ◯`

Envisage what the following script will draw. Then experiment with the **change pen size by ...** block within the **repeat** block and create your own drawings. On the right are some examples.

```
set pen size to 2
repeat 4
  move 80 steps
  turn ↻ 90 degrees
  change pen size by 6
```