

## Module 2

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### Exercises: Think Like a Computer

#### ① Sample Solution

In the centre of the page draw a rectangle about 3mm high 3 cm wide.

At the midpoint of the top side of rectangle draw a line upwards 5cm in length.

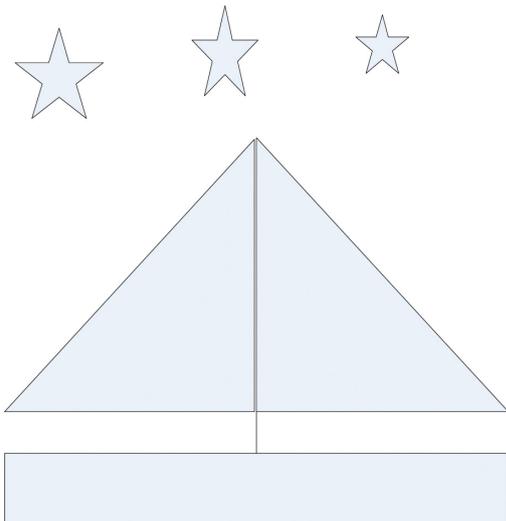
Draw a rectangle 4cm high 2 cm wide with the midpoint of the bottom side touching the top of the upwards line.

Draw 3 circles inside the top rectangle all 1cm in diameter that are centred horizontally across the rectangle and spaced evenly vertically in the rectangle.

#### ② Sample Solution

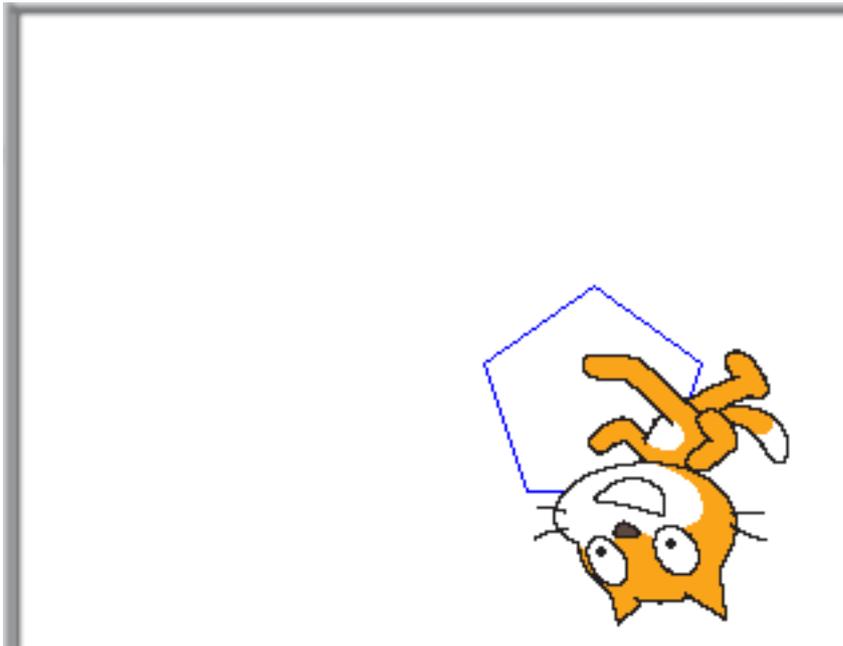
1. Draw 3 circles on top of each other. The top circle is the smallest, the middle circle is middle sized and the bottom circle is the largest
2. On top of the top circle, draw a square with a line underneath it extending out at the sides of the square
3. In the top area of the bottom circle draw a coloured small circle
4. In the centre of the middle circle draw two small coloured circles
5. In the top circle, draw two small solid circles side by side in the upper part of the circle
6. In the top circle, draw three small circles side by side in the bottom part of the circle in a U shape.
7. In the top circle, draw a left facing right angled triangle in the centre of the circle with the base twice the side of the height.
8. On the right hand side of the middle circle, draw a line facing north east direction and at the end of the line draw a small hexagon
9. On the left hand side of the middle circle, draw a line facing north west direction and at the end of the line draw a small hexagon

#### ③



## Exercises: Could You Repeat That Please?

1



2

```
when clicked
point in direction -90
hide
clear
pen up
set pen color to pick random 0 to 200
set pen size to 10
go to x: 0 y: 0
pen down
repeat 360
  move 1 steps
  turn 1 degrees
pen up
change x by 150
pen down
repeat 5
  move 50 steps
  turn 72 degrees
```

## Over and Over Again

1

```
when clicked
  clear
  hide
  set pen size to 5
  pen up
  go to x: 0 y: 0
  point in direction -90
  pen down
  repeat 2
    repeat 4
      repeat 4
        move 50 steps
        turn 90 degrees
      turn 90 degrees
    pen up
    change pen color by pick random 1 to 100
    change x by 100
    change y by 100
  pen down
```

2

```
when clicked
  go to x: 0 y: 0
  clear
  hide
  set pen size to 3
  pen down
  point in direction 0
  repeat 6
    repeat 2
      repeat 18
        move 10 steps
        turn 5 degrees
      turn 90 degrees
    turn 60 degrees
```

## End of Module 2 Quiz

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- 1 C.
- 2 D.
- 3 C.
- 4 A.