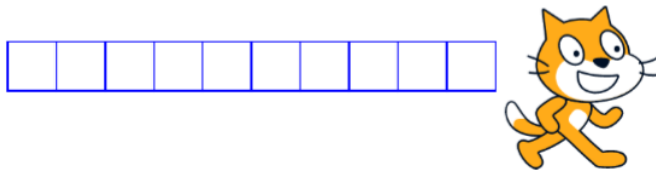


Nested Loops – How does Scratch Cat do it?

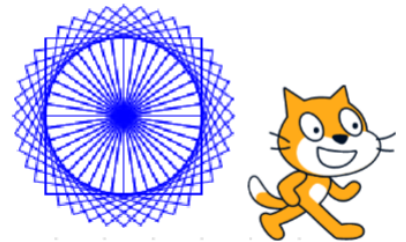
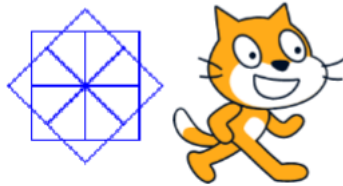
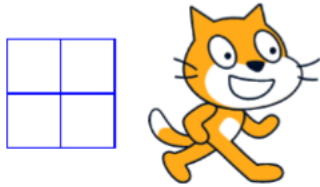
Look at the first picture and code.



```

pen down
repeat 10
  repeat 4
    move 30 steps
    turn 90 degrees
  move 30 steps
  
```

Circle the elements of the code below that are different from the first example



```

pen down
repeat 4
  repeat 4
    move 30 steps
    turn 90 degrees
  turn 90 degrees
  
```

```

pen down
repeat 8
  repeat 4
    move 30 steps
    turn 90 degrees
  turn 45 degrees
  
```

```

pen down
repeat 40
  repeat 4
    move 50 steps
    turn 90 degrees
  turn 9 degrees
  
```

What shape is drawn by the “nested” repeat & which elements make the different effects.

```

pen down
repeat 5
  repeat 3
    move 30 steps
    turn 120 degrees
  move 30 steps
  
```

Now look at this example. Look carefully at the code and circle the elements which are different.

Discuss what is going on with a partner and draw what you think it will produce.