

Worksheet: Turtle Graphics, Repeating Patterns



Name

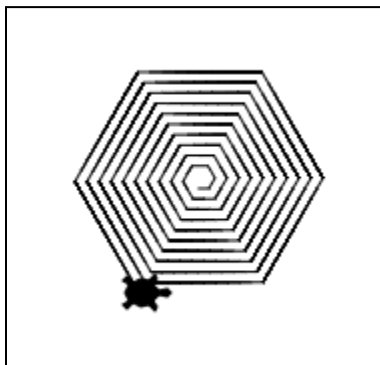
Class

Question 1

Type in the code below and run it:

```
from turtle import *  
  
steps = 5  
  
repeat 60:  
    forward(steps)  
    left(60)  
    steps = steps + 1
```

Check that you get the following pattern!



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Question 2

Look carefully at the line of code in the **red** rectangle below:

```
from turtle import *  
steps = 5  
  
repeat 60:  
    forward(steps)  
    left(60)  
    steps = steps + 1
```

What do you *think* **steps = 5** means in the code?

Now change the code from **steps = 5** to **steps = 50**.

What do you *think* will happen?

Run the code and describe what has changed below:

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Question 3

Look carefully at the line of code in the **red** rectangle below:

```
from turtle import *  
  
steps = 5  
  
repeat 60:  
    forward(steps)  
    left(60)  
    steps = steps + 1
```

What do you *think* **repeat 60:** means in the code?

Change the previous code back to **steps = 5**

Now change the code from **repeat 60:** to **repeat 10:**

What do you *think* will happen?

Run the code and describe what has changed below:

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Question 4

Look carefully at the line of code in the **red** rectangle below:

```
from turtle import *  
  
steps = 5  
  
repeat 60:  
    forward(steps)  
    left(60)  
    steps = steps + 1
```

What do you *think* **steps = steps + 1** means in the code?

Change the previous code back to **repeat 60**:

Now change the code from **steps = steps + 1** to **steps = steps + 5**

What do you *think* will happen?

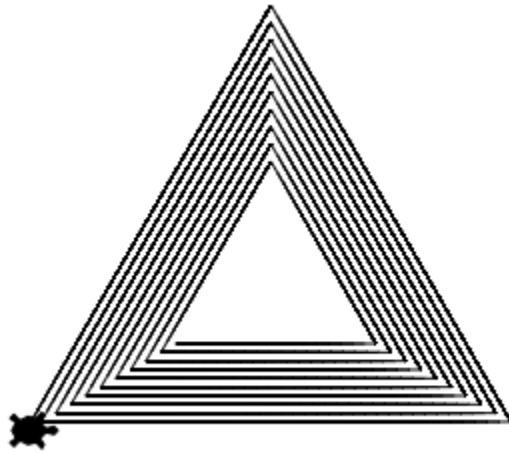
Run the code and describe what has changed below:

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Question 5

Modify the code so that you can get the turtle to draw the following pattern:



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