

TO tryEm

```
ca
ask patches [set pcolor white]
```

```
cro howMany
```

```
ask turtles
```

```
[
  pd
  set pen-size 3
  set color black
  fd 10
]
```

END

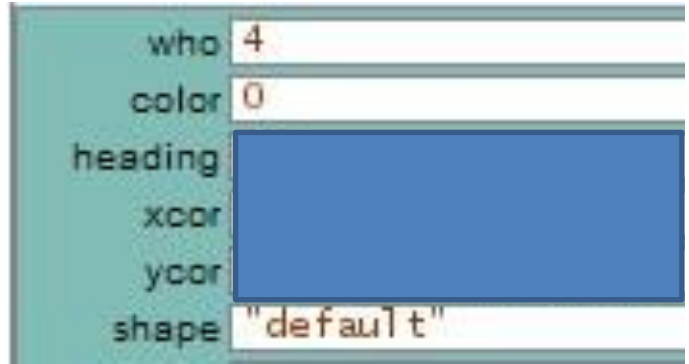
As you can see above on the SLIDER, the howMany slider value was set to 20.

See the cro howMany statement.

The highlighted turtle is the turtle with who #4.

We need to find its exact and its specific location.

In questions #2 and #3, you will find its (xcor, ycor) location in the 2D turtle world, which is the coordinates of the point where it is located on the NetLogo grid.



VIP: You need to clearly show the steps and process of arriving at your answers too! You may use the Windows calculator, but SHOW all your steps of the algebra too. VIP, VIP, VIP!

See the code and screen snapshot on the separate page.

Name _____

Due on Wednesday , September 28, 2016

1. What is the **heading** for the turtle with WHO number 4 (it is the highlighted turtle)? Show how you calculated or arrived at the answer. Do NOT just show the final answer.
2. What is the **xcor** for the turtle with who number 4? **You must show ALL your work** and process of getting to the answer! Show numerators and denominators. Use SINE or COSINE.
3. What is the **ycor** for the turtle with who number 4? **Show your work and clearly illustrate** the steps in how you got the answer. Use SINE or COSINE.
4. Solve the problem again using only the TANGENT trigonometry function and Pythagorean Theorem. Again show every step of your work in your answer. **SHOW ALL YOUR WORK!**