Motion in Scratch 1 Worksheet

Name:_____________________________________

1. What does the “move 10 steps” block do?

2. What do the “turn” blocks do?

3. In the Motion tab, click the checkboxes next to “x position”, “y position”, and “direction”.

4. Click on the sprite and drag it to a new place on the stage. What is the sprite’s NEW position and direction?
   Position:_________________________
   Direction:_______________________

5. Now run the following script and write down the sprite’s NEW position and direction:
   ```
   go to x: 0 y: 0
   point in direction 90
   ```
   Position:_________________________
   Direction:_______________________

6. When the sprite is back to (0,0), run the following script:
   ```
   move 40 steps
   turn - 90 degrees
   move 50 steps
   ```
   a. What is the sprite’s NEW position and direction?
   b. Draw a picture of the sprite.

7. Get the sprite back to (0,0). (Hint: use the script in #5 to do this easily.)
8. When the sprite is back to (0,0), run the following script:
   ```
   repeat 3
   move 100 steps
   turn - 90 degrees
   ```
   a. What is the sprite’s NEW position and direction?
   b. Draw a picture of the sprite.
9. Get the sprite back to (0.0). (Remember, use the script in #5!)
10. Write a script to make the sprite walk from (0,0) to (150,100). Draw the script below.

11. Write a script to make the sprite walk from (0,0) to (-40,75). Draw the script below.

12. Write a script to make the sprite walk from (0,0) to (50,50) AND THEN to (-50,50). Draw the script below.

13. Write a script to make the sprite walk in a square. Draw the script below.

14. Write a script to make the sprite walk in a triangle. Draw the script below.