Programming for Beginners Part 1

Directions:

Go to the programming for beginners site http://www.programmingbasics.org/en/beginner/gettingstarted.html.
Read along and fill the blanks ON THIS WORKSHEET as you work through the different lesson on this site.

Getting Started

Computers are _____ at understanding things.

Computers need _____ instructions or they will make _____ and become _____.

This website will use _____ which is a _____ computer language to communicate with the

computer because it does not understand _____.

_____ are little mistakes or problems in the Javascript which are made by even the best _____.

Giving Commands to Objects

JavaScript is an _____language.

What does that mean?

What are the names of the two objects you will be giving commands to in this section?

_____ and _____

What do they look like?_____

What is the box in which you will write the commands called? _____

When programming in JavaScript you must follow the steps below

Type whom you want to give a _____ to.

You type a___.

You type which command you want to_____.

You type two round _____ that look like ____ and a semi-colon that looks like _____.

The very last thing you do is _____ to see if the program works.

Note: JavaScript will get confused if you use _____ letters therefore you must use _____

If you give a command to one of the robots that it does not understand it is a_____, and JavaScript will _____

and tell you what's wrong in the _____ Messages area.

Commands Practice:

What happens if you try to make tvbot jump? Write the error message.

_____

Write 4 other command lines for zbot.

_____   _____

_____   _____

What is a "program"?_____

Program 1 Practice:

Type the commands you would give tvbot to the spaceship into the program area. Show your partner when it

works. Have your partner watch your tvbot move. If it works, type his/her name here: _____

STOP: Copy the code from your program area and paste it in this box.

Program 2

What is on tvbots channel 4? _____

What is the time command line?   _____

What is the date command line look like? _____

What does the show command do? _____

Calculator

Javascript can do math like it is a _____ and it will display the answer if you use the

_____ command.

To add numbers put a ____ sign between them so the command looks like this: _____

To multiply numbers put a ____ sign between them so the command looks like this: _____

To divide numbers put a ____ sign between them so the command looks like this: _____

To subtract numbers put a ____ sign between them so the command looks like this: _____

Javascript doesn't do the math from _____ to _____

It uses a special _____ order.

What is the answer to show(3*2+1-5) _____

Variables
A_____ is a piece of information with a _____ for that information that is used to get a computer to _____ stuff.

What is the command line for the computer to remember 10 apples? _____

What is the command line to get the computer to tell you how many apples you have?_____

Variable names cannot have any weird _____ in them.

The variable name can have numbers in it as long as the name doesn't start with a number: True or false

But for the program to work you must make sure you _____ the variable the same way every time.

Make sure you don't mix up your upper case and lower case_____!

Give and example of a mix up: _____

Can variables be used to do math? Yes or No

Explain what the weird things with variables is and what you must do each time:_____

_____

Strings 1
A _____is used if you want to use words in a program.

A string is bunch of letters or _____ put between quotes.

You can have symbols (except for the_____and _____) and _____in between the quotes as well.

If you try to show a string, everything except for the _____will be shown.

It's important to have quotes at the _____and _____of the string.

Or the computer will think you are trying to use a_____!

Practice:

Type the commands you would give actingbot if he were to sing the first chorus of Mary had a little lamb using the variable:s for the words little lamb into the program area. Show your partner when it works.

Have your partner watch your actingbot sing Mary had a little lamb and type his/her name here; _____

STOP: Copy the code from your program area and paste it here.

Unlike numbers, you can't do _____ with strings. If you try to add strings together, the two strings

get_____ together.

What answer would this string show you? Show("1"+"6") _____