

A5 Circle Math Functions

This program tests your abilities to make difficult math programs out of the blocks.

I would recommend that you try out the

 Show Text

button and try to type in the formulas. It is easier than building the blocks.

Your Task:

Ask the user for a radius.

Then make the following calculations and display the results.

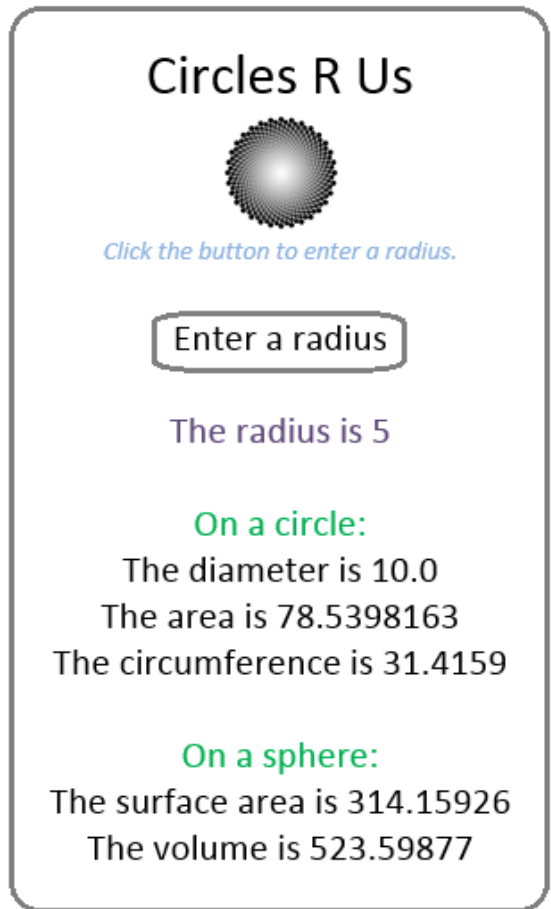
On a circle:

- $d=2r$
- $A=\pi r^2$
- $C=2\pi r$

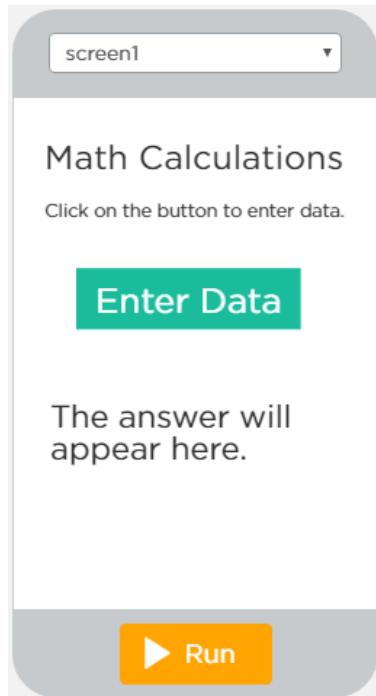
On a sphere:

- $SA = 4\pi r^2$
- $V=(4\pi r^3)/3$

The screen might look like the one on the right→



Code Block Example:



A useful reference program is the one on the math sheet.

The "Enter Data" button's id is enter.

The "The answer will appear here." Label's id is answer.

```
onEvent (▼"enter", ▼"click", function(event) {  
  var radius = promptNum("Enter the radius: ");  
  var area = 3.14159 * (radius * radius);  
  setText (▼"answer", "The area is " + area);  
});
```