## Word Problem: red-shape

**Directions:** Write a function called "red-shape", which takes in the name of a shape and draws that shape (solid and red). Add an otherwise clause that produces a sensible output.

## **Contract and Purpose Statement**

Every contract has three parts...

	red-sha	ре	::	String						->_	Image
	function nam	ne		domain							range
#	Create	a	solid	red	shape	of	the	given	kind		

what does the function do?

## **Examples**

Write some examples, then circle and label what changes...

examples:

```
"circle"
                                          ) is
                                                   circle(50,
                                                                     "solid",
                                                                                   "red")
red-shape
 function name
                                                              what the function produces
                            input(s)
red-shape
                       "triangle"
                                          ) is
                                                   triangle(50,
                                                                       "solid",
                                                                what the function produces
 function name
                            input(s)
                                                                             "solid",
red-shape
                      "rectangle"
                                          ) is
                                                   rectangle (5,
                                                                                            "red")
                                                                  what the function produces
 function name
                            input(s)
                          "star"
                                                   star(50,
                                                                  "solid",
                                                                                "red")
red-shape
                                          ) is
 function name
                            input(s)
                                                             what the function produces
                       "garbanzo"
                                                   text("???", 20,
                                                                             "red")
red-shape
                                          ) is
 function name
                            input(s)
                                                           what the function produces
```

end

## **Definition**

Write the definition, given variable names to all your input values...

```
fun
      red-shape
                                       ):
                           shape
        function name
                            variables
   if
          "circle" ==
                                                circle(50,
                                                              "solid",
                          shape
                "triangle"
                                                                 "solid",
   else if
                                  shape
                                               : triangle(50,
                                                                            "red")
   else if
                "rectangle"
                                               : rectangle(9,
                                                                 "solid",
                                   shape
   else if
                "star"
                                               : star(50,
                                                             "solid",
                                                                        "red")
                        ==
                             shape
                               <u>"red"</u>)
           text(20, "???",
   else:
   end
end
```