

# The Design Recipe

For the word problems below, assume you have `animalA` and `animalB` defined in your code.

**Directions :** Define a function called `kilos` , which consumes a Row of the animals table and divides the pounds column by 2.2 to *compute* the animal's weight in kilograms.

## Contract and Purpose Statement

Every contract has three parts...

```
# _____ :: ( r :: Row ) -> _____  
      function name                domain                range  
  
# _____  
                                what does the function do?
```

## Examples

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

**examples :**

```
_____ ( _____ ) is _____  
function name      input(s)                what the function produces  
  
_____ ( _____ ) is _____  
function name      input(s)                what the function produces
```

**end**

## Definition

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

```
fun _____ ( _____ ) :  
    function name      variable(s)  
  
    _____  
    what the function does with those variable(s)  
  
end
```

**Directions :** Define a function called `smart-dot` , which consumes a Row of the animals table and *computes* the image of a solid red circle using the animal's `pounds` as the radius.

## Contract and Purpose Statement

Every contract has three parts...

```
# _____ :: _____ -> Image  
      function name                domain                range  
  
# Consumes an animal, and computes a solid red circle using the weight in pounds as the radius  
    _____  
    what does the function do?
```

## Examples

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

**examples :**

```
smart-dot ( "animalA" ) is _____  
function name      input(s)                what the function produces  
  
_____ ( _____ ) is _____  
function name      input(s)                what the function produces
```

**end**

## Definition

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

```
fun _____ ( _____ ) :  
    function name      variable(s)  
  
    _____  
    what the function does with those variable(s)  
  
end
```