

## Word Problem: draw-sun

Write a function called *draw-sun*, which consumes a *SunsetState*, and produces an image of a sun (a solid, 25 pixel circle), whose color is "yellow", when the sun's y-coordinate is greater than 225, "orange", when its y-coordinate is between 150 and 225, and "red" otherwise.

Contract+Purpose Statement

# draw-sun :: SunsetState → Image

# Consumes a *SunsetState* and produces a circle whose color ("yellow", "orange", or "red") is based on the sunset's y coordinate

Give Examples

examples:

|                 | a-sunset                    |    | sun-color                             |
|-----------------|-----------------------------|----|---------------------------------------|
| <u>draw-sun</u> | ( <u>sunset(50, 270)</u> )  | is | circle(25, "solid", <u>"yellow"</u> ) |
| <u>draw-sun</u> | ( <u>sunset(200, 150)</u> ) | is | circle(25, "solid", <u>"orange"</u> ) |
| <u>draw-sun</u> | ( <u>sunset(340, 100)</u> ) | is | circle(25, "solid", <u>"red"</u> )    |
| <u>draw-sun</u> | ( <u>sunset(400, 0)</u> )   | is | circle(25, "solid", <u>"red"</u> )    |

end

(worksheet continues next page)