




```

> ( require 2htdp/image )
> ( define side 100 )
> ( define the-square ( square side "solid" "silver" ) )
> the-square

> ( define radius ( / side 2 ) )
> ( define the-circle ( circle radius "solid" "white" ) )
> ( define the-image ( overlay the-circle the-square ) )
> the-image

>

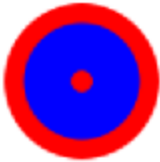
```

### **Interaction: Illustration of the Target Problem Situation**

```

> ( require 2htdp/image )
> ( define small_circle ( circle 6 "solid" "red" ) )
> ( define medium_circle ( circle 31.5 "solid" "blue" ) )
> ( define big_circle ( circle 42 "solid" "red" ) )
> ( define circle_group ( overlay small_circle medium_circle
big_circle ) )
> circle_group

```



>

### **Interaction: Solution to the target problem**

```

> ( define small_radius 6 )
> ( define medium_radius 31.5 )
> ( define big_radius 42 )
> ( define small_area ( * pi small_radius small_radius ) )
> ( define medium_area ( * pi medium_radius medium_radius ) )
> ( define big_area ( * pi big_radius big_radius ) )
> ( define outerring ( - big_area medium_area ) )
> ( define red_area ( + outerring small_area ) )
> ( define percent_red ( * ( / red_area big_area ) 100 ) )
> percent_red
45.79081632653062
> |

```