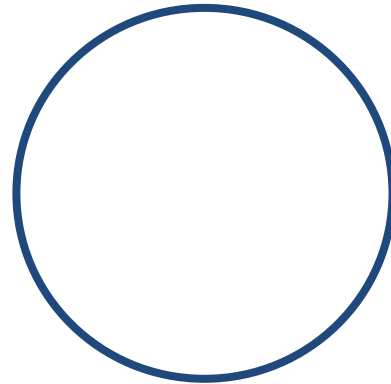


# Using Area to Calculate Parts of a Circle

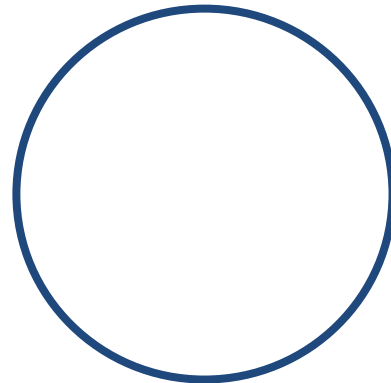


I'll recall what I know about the parts of a circle.

- How would I describe and show the radius and the diameter of a circle?

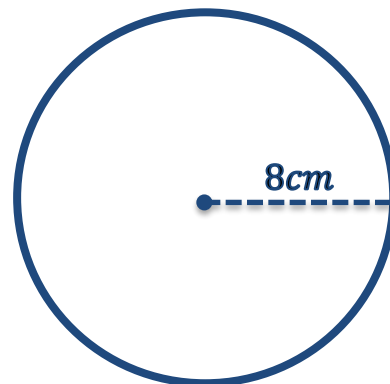


- How would I compare the circumference of a circle to the area of a circle?



- How would I explain the formula used to calculate the area of a circle?

- How would I explain my thinking as I substitute the information shown into the area formula?

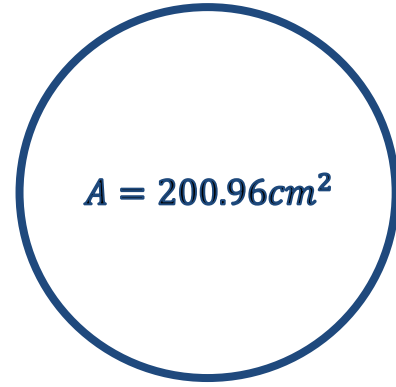




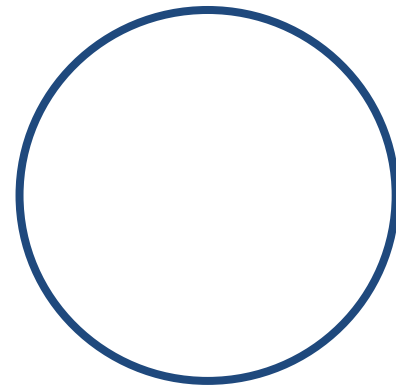
I'll explore how I use the area of a circle to calculate the radius, diameter and circumference of a circle.

Calculate the radius of the circle?

- How would I explain and demonstrate the substitution step within this problem?
- How would I explain my thinking as I perform the inverse operations required to isolate the variable and determine the value of the radius?



- How would I compare the radius with the diameter of a circle?
- How would I explain my calculation to determine the diameter of the circle?
- How would I explain and demonstrate calculating the circumference of the circle?



## Using Area to Calculate Parts of a Circle -Skills Checklist



I can explain and draw the radius and diameter of a circle...

I can compare the area of a circle to the circumference of a circle

I can explain and demonstrate how I use the formula  $A = \pi r^2$  to calculate the area of a circle

I can explain and demonstrate how I use  $A = \pi r^2$  to calculate the radius and diameter of a circle

*Using Area to Calculate Parts of a Circle - Worksheet*



$$\begin{array}{r} ab + 6bc \\ ab + 6bc \\ \hline \end{array}$$