

# WINTER CIRCLES

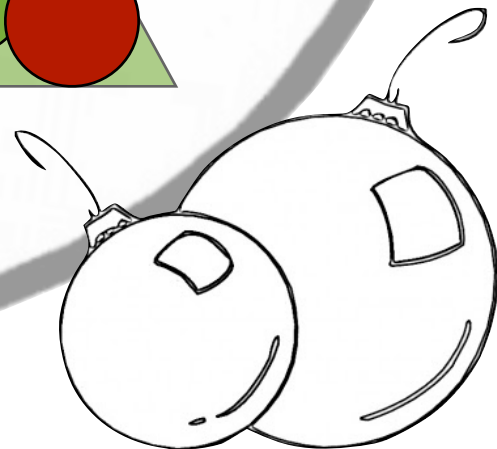
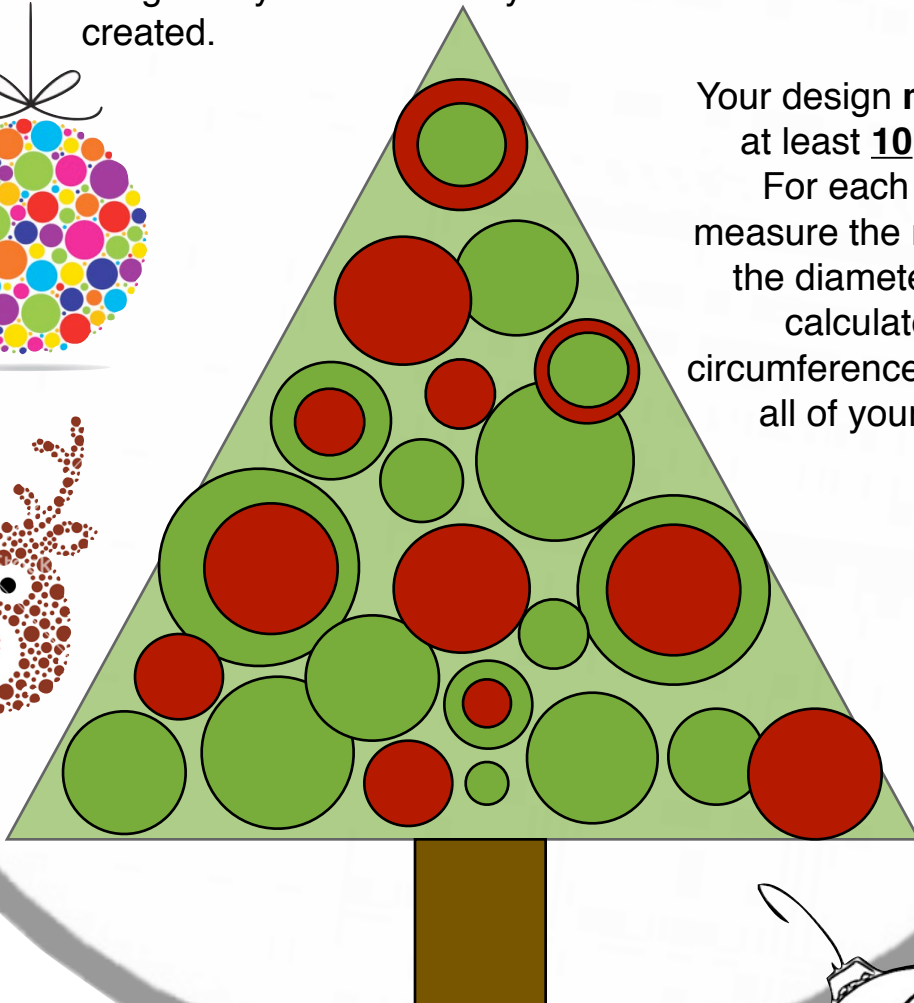
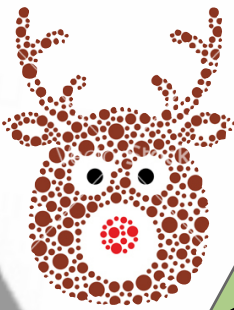
Who knew that this season had so many circles? From ornaments to snowballs the possibilities are endless!

This math design challenge will allow you to discover the hidden geometry of the season.

## The Challenge:

Design a seasonal card that is based on circles. Use your compass to draw circles of various sizes and colours. Feel free to add details and images to your card after your circles have been created.

Your design **must** have at least 10 circles. For each circle, measure the radius and the diameter. Next, calculate the circumference and show all of your work.



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## Recording Sheet:

### Circle 1:

Radius: \_\_\_\_\_ Diameter: \_\_\_\_\_

Circumference:  $\pi d$

### Circle 6:

Radius: \_\_\_\_\_ Diameter: \_\_\_\_\_

Circumference: \_\_\_\_\_

### Circle 2:

Radius: \_\_\_\_\_ Diameter: \_\_\_\_\_

Circumference: \_\_\_\_\_

### Circle 7:

Radius: \_\_\_\_\_ Diameter: \_\_\_\_\_

Circumference: \_\_\_\_\_

### Circle 3:

Radius: \_\_\_\_\_ Diameter: \_\_\_\_\_

Circumference: \_\_\_\_\_

### Circle 8:

Radius: \_\_\_\_\_ Diameter: \_\_\_\_\_

Circumference: \_\_\_\_\_

### Circle 4:

Radius: \_\_\_\_\_ Diameter: \_\_\_\_\_

Circumference: \_\_\_\_\_

### Circle 9:

Radius: \_\_\_\_\_ Diameter: \_\_\_\_\_

Circumference: \_\_\_\_\_

### Circle 5:

Radius: \_\_\_\_\_ Diameter: \_\_\_\_\_

Circumference: \_\_\_\_\_

### Circle 10:

Radius: \_\_\_\_\_ Diameter: \_\_\_\_\_

Circumference: \_\_\_\_\_