**Change in Dimensions Notes**  Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |
| --- | --- | --- | --- |
| **Original Rectangle** | **Rectangle 1** | **Rectangle 2** | **Rectangle 3** |
|  |  |  |  |
| Length =  Width =  Area = | Length = 8 cm  Width = 3 cm  Area = | Length = 4 cm  Width = 6 cm  Area = | Length = 8 cm  Width = 6 cm  Area = |
|  | When the length \_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ and the width \_\_\_\_\_\_\_\_\_\_\_\_\_\_, then the area \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | When the length \_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ and the width \_\_\_\_\_\_\_\_\_\_\_\_\_\_, then the area \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | When the length \_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ and the width \_\_\_\_\_\_\_\_\_\_\_\_\_\_, then the area \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

|  |  |  |
| --- | --- | --- |
| **Original Circle** | **Circle 1** | **Circle 2** |
|  |  |  |
| Radius =  Area = | Radius = 2 cm  Area = | Radius = 3 cm  Area = |
|  | When the radius \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ then the area \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | When the radius \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ then the area \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

**Pause the video and try these on your own!**

**Then press play and check your answers with a color pen.**

1. Looking at the original rectangle, what would happen to the area if you tripled the length, but kept the width the same? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. Looking at the original rectangle, what would happen to the area if you tripled the length and the width? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. Looking at the original circle, what would happen to the area if you quadrupled the radius? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. Looking at the original circle, what would happen to the area if you multiplied the radius by 7? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_