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

|  |  |  |  |
| --- | --- | --- | --- |
| **Original Rectangle** | **Rectangle 1** | **Rectangle 2** | **Rectangle 3** |
|  |  |  |  |
| Length =Width =Area = | Length = 8 cmWidth = 3 cmArea = | Length = 4 cmWidth = 6 cmArea = | Length = 8 cmWidth = 6 cmArea = |
|  | 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 cmArea = | Radius = 3 cmArea = |
|  | When the radius \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ then the area \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | When the radius \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ then the area \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

**![C:\Documents and Settings\jainslie\Local Settings\Temporary Internet Files\Content.IE5\6W2FJPU3\MC900432687[1].png]()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? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_