# Using Contracts

Referenced from lesson [Contracts](https://www.bootstrapworld.org/materials/spring2021/en-us/courses/data-science/lessons/contracts/index.shtml) (Spring, 2021)

Use the contracts to write expressions to generate images similar to those pictured.

ellipse:: Number, Number, String, String -> Image

| [🖼Show image](https://www.bootstrapworld.org/materials/spring2021/en-us/courses/data-science/lessons/contracts/images/4a9485c8b9bebf92.png) |  |
| --- | --- |
| [🖼Show image](https://www.bootstrapworld.org/materials/spring2021/en-us/courses/data-science/lessons/contracts/images/bad7a903464a8936.png) |  |
| What changes with the first number? |  |
| What about the shape changes with the second Number? |  |
| Write an expression using ellipse to produce a circle. |  |

regular-polygon:: Number, Number, String, String -> Image

| [🖼Show image](https://www.bootstrapworld.org/materials/spring2021/en-us/courses/data-science/lessons/contracts/images/1c923b5a8094b6b0.png) |  |
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| [🖼Show image](https://www.bootstrapworld.org/materials/spring2021/en-us/courses/data-science/lessons/contracts/images/a6fe1656b7ef4f71.png) |  |
| What changes with the first Number? |  |
| What about the shape changes with the second Number? |  |
| Use regular-polygon to write an expression for a square! |  |
| How would you describe a **regular polygon** to a friend? |  |

*These materials were developed partly through support of the National Science Foundation, (awards 1042210, 1535276, 1648684, and 1738598).  Bootstrap:Data Science by the* [*Bootstrap Community*](https://bootstrapworld.org/community/index.shtml) *is licensed under a* [*Creative Commons 4.0 Unported License*](https://creativecommons.org/licenses/by-nc-nd/4.0/)*. This license does not grant permission to run training or professional development. Offering training or professional development with materials substantially derived from Bootstrap must be approved in writing by a Bootstrap Director. Permissions beyond the scope of this license, such as to run training, may be available by contacting* [*contact@BootstrapWorld.org*](https://www.bootstrapworld.org/materials/spring2021/en-us/courses/data-science/lessons/contracts/pages/mailto:contact@BootstrapWorld.org)*.*

Last updated 2021-10-12 13:35:41 -0400