**WHAT IS A RATIO?**

*Learning Target: Understand the concept of a ratio and write ratios in three different ways.*

A ratio \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_values. *A ratio says how much of one thing there is compared to another thing.*

RATIOS can be **written** in **THREE different ways**:

You can separate the two quantities (amounts) using a:

|  |  |
| --- | --- |
| Fraction | $$\frac{1}{2}$$ |
| Colon | 1:2 |
| Words | 1 to 2 |

YOU TRY IT!!!! Write the ratio of triangles to stars in three different ways.

"Part-to-Part" and "Part-to-Whole" Ratios

The examples so far have been "part-to-part" (comparing one part to another part).

But a ratio can also show a **part** compared to the **whole**.

**Example: There are 5 pups, 2 are boys, and 3 are girls**

|  |  |  |
| --- | --- | --- |
|  |   |     |

A part-to-part ratio (comparison) would be 2 boys: 3 girls.

A part-to-whole ratio (comparison) would compare a gender to the WHOLE group. For example, 2 boys to 5 pups.

YOU TRY IT! Use the shapes below to write a ratio of:

1. Stars to all shapes \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Triangles to all shapes\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Circles to all OTHER shapes\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_