

# SMARTIES ACTIVITY

- Count the total number of smarties in the box.
- Record how many smarties there are of each colour.
- Write down as many different ways you can compare the smarties.
- Explain how you came up with your comparisons.



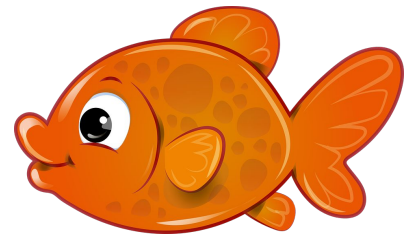
# A RATIO IS...

A comparison of quantities or measures with similar units.

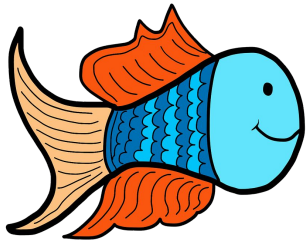
- Ratios allow us to compare numbers, items, people, etc...
- They can be written in different ways
  - For example, 2:5 or 2 **to** 5

Example: Write a ratio for the following situation.

Maddie has 4 goldfish and 2 beta fish.



What is the relationship between goldfish and betta fish?



Example: Write a ratio for the following situation.

Eric has 9 golf balls and 3 basketballs.

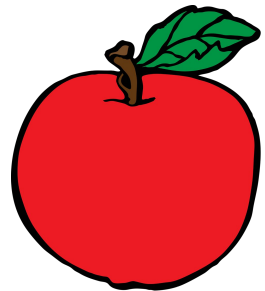


What is the relationship between golf balls and basketballs?

**Two-term ratio:** a comparison of two quantities or measures

**Three-term ratio:** a comparison of three quantities or measures

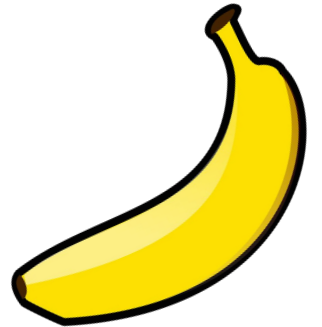
Example: Melissa has 4 apples, 2 pears, and 1 banana.



**Part-to-part ratio:** a comparison of one part to another part of the same whole

**Part-to-whole ratio:** a comparison of one part to the whole

Example: Melissa has 4 apples, 2 pears, and 1 banana.



## **Writing ratios as fractions and percents**

A part-to-whole ratio can be written in fraction notation or as a percentage.

Why do you think a part-to-part ratio cannot?

**Example:** Julia has a bracelet with 6 blue beads and 18 green beads.

Write a part-to-whole ratio

Express the ratio as a fraction. Is it in simplest form?

Express the ratio as a percent