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# REVIEW (you don't have to write this down)

**What is a Fraction?**

- A **fraction** shows a part of a whole.
- It has two numbers:

$$\frac{\text{top number (numerator)}}{\text{bottom number (denominator)}}$$

- **Numerator** = how many parts you have
- **Denominator** = how many in total

## Fractions and Ratios Together

- A ratio can be **part-to-part** or **part-to-whole**.
- We can use fractions, words, or a colon to describe these!
  > But they are ratios right now, not fractions!

What *fraction* of this class has brown hair?

12

part of class

ratio $\frac{12}{22}$ ← part, ← whole

could this be written as a ratio?

12 : 22

12 to 22

brown hair to total.

→ the whole class

12 : 10

brown to other colour.

A bag has 8 red marbles and 12 blue marbles.

- Ratio of red to blue = 8 : 12
- Fraction red to blue = $\frac{8}{12}$
- Ratio of red to total = 8 : 20
- Fraction of marbles that are red = $\frac{8}{20}$

*because fractions are part to whole.

There are 10 boys and 15 girls in a class.

- Ratio of boys to girls = 10 : 15 boys to girls
- Ratio of girls to total = 15 : 25 girls to total
- Fraction of class that are girls = $\frac{15}{25}$.

Ex) 20 people show up fro band practice. If 7 of the people play guitar, 2 play piano, 6 play flute, 4 play bass and 1 plays the drums. What fraction of the band plays the bass?

total = 20

bass = 4

$$\frac{4}{20}$$

ALL THREE TYPES OF RATIOS REPRESENT THE SAME THING!

Remember

★ always write what you are comparing

. A math club has 25 members, of which 11 are males and the rest are females. What is the ratio of males to all club members?

males to all club members

11 : 25

A group of preschoolers has 15 boys and 12 girls. What is the ratio of girls to boys?

girls to boys

12 : 15

A pattern has 4 blue triangles to every 12 yellow triangles. What is the ratio of blue triangles to all triangles?

blue to all

4 : 16




https://www.mathworksheets4kids.com/ratio/customary/pictures-3ways-1.pdf