

## 1.2 Ratios

***Objective: To interpret and use ratios***

Where do we use ratios in everyday life?



Ratio – A comparison of two whole numbers  
in the same units

5 girls to 7 boys

4 Possible Ways to Write a Ratio

$$\frac{5}{7}$$

5:7

5 to 7

Sometimes...

5 out of 12

as in 5 girls out of 12 students

# Ratio

$$\frac{28 \text{ inches}}{4 \text{ feet}} = \frac{28 \text{ inches}}{48 \text{ inches}} = \frac{7}{12}$$

- A comparison of two whole numbers in the same units
- Always written as two numbers

$$\frac{7}{12} \quad 7:12 \quad 7 \text{ to } 12$$

- Never write the units
- Reduce to simplify

## Simplify each ratio

$$1) \frac{15}{10} = \frac{3}{2} = \cancel{1\frac{1}{2}}$$

$$2) \frac{60}{50} = \frac{6}{5}$$

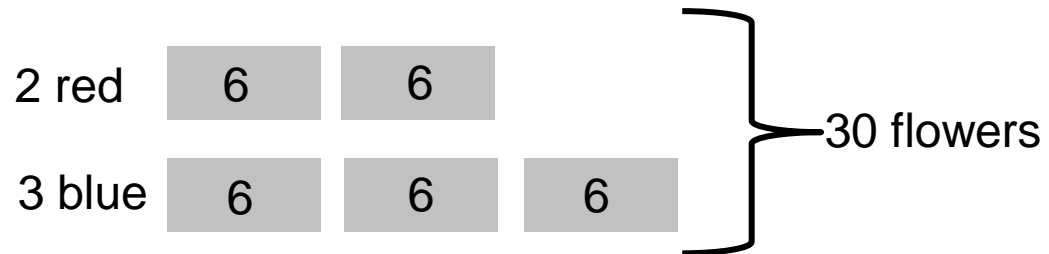
$$3) \frac{2 \text{ weeks}}{5 \text{ days}} = \frac{14 \text{ days}}{5 \text{ days}} = \frac{14}{5}$$

4) 12 out of 40

$$\frac{12}{40} = \frac{3}{10}$$

5) Avi wants to divide 30 flowers into two groups, so that the ratio is 2 red to 3 blue flowers.

Draw a bar diagram to show a ratio of 2 to 3.



There are 5 equal sections which has 6 flowers in each. There are 12 red and 18 blue flowers.