

7/10/00
C.W.

Reteaching 6-1 Exploring Ratios Using Data

A **ratio** is a comparison of two numbers by division. You can write a ratio three ways.

Compare the number of red tulips to the number of yellow tulips.



red tulips



yellow tulips



orange mums



white mums

6 to 2, $6 : 2$, or $\frac{6}{2}$

To find equal ratios, multiply or divide *each part* of the ratio by the same nonzero number.

$$\frac{6}{2} = \frac{6 \times 2}{2 \times 2} = \frac{12}{4} \quad \leftarrow \text{Multiply by 2.}$$

The ratio $\frac{3}{1}$ is in **simplest form**.

$$\frac{6}{2} = \frac{6 \div 2}{2 \div 2} = \frac{3}{1} \quad \leftarrow \text{Divide by 2.}$$

Use the drawings at the top of the page.

1. yellow tulips to red tulips

2. white mums to orange mums

3. red tulips to orange mums

4. yellow tulips to white mums

5. red tulips to all flowers

6. orange mums to all flowers

7. tulips to mums

8. white mums to tulips

9. yellow tulips to all flowers

10. yellow tulips to orange mums

Write two other ratios equal to each ratio.

11. $\frac{5}{10}$ _____ 12. 2:5 _____ 13. 18 to 30 _____

Write each ratio in simplest form.

14. $\frac{8}{16}$ _____ 15. 8 to 2 _____ 16. 10:15 _____

17. $\frac{48}{24}$ _____ 18. $\frac{6}{100}$ _____ 19. 8:18 _____