

MATH · GRADES 5–6

Ratio and Proportion

Comparing quantities

What's a ratio?

A RATIO compares two amounts. It's written with a colon: 3:1 (read 'three to one'). For every 3 of one thing there's 1 of another. A ratio is in its SIMPLEST FORM when both numbers can't be divided by anything except 1. So 6:4 simplifies to 3:2.

Simplify each ratio

$4 : 2 =$

$10 : 5 =$

$12 : 8 =$

$15 : 25 =$

$20 : 16 =$

$9 : 27 =$

$18 : 24 =$

$100 : 25 =$

Word problems

1. A recipe uses 2 cups flour and 1 cup sugar. What's the ratio? If you use 6 cups flour, how much sugar?
2. A class has 15 girls and 12 boys. Simplify the ratio. If 25 new pupils joined keeping the same ratio, how many would be girls?
3. A scale on a map says 1 cm = 5 km. Two cities are 8 cm apart on the map. How far apart in real life?
4. Paint mix: 3 parts blue to 2 parts white. If you use 9 parts blue, how many parts white?



5. A smoothie uses 4 strawberries to 1 banana. If you have 20 strawberries, how many bananas do you need?

