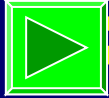


# Ratios

 Simplifying Ratios

 Ratio Calculations

# Ratios

What is a ratio ?

## Learning Intention

1. To understand what a ratio is and explain how we can sometimes simplify them.

## Success Criteria

1. Understand the term ratio.
2. Calculate and simplify basic ratios.

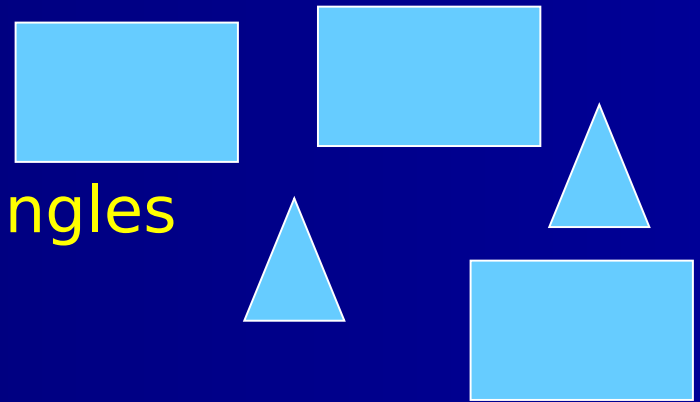
# Ratios

What is a ratio ?

Ratios can be used to compare different quantities

Example : There are 2 triangles and 3 rectangles.

The ratio of triangles to rectangles  
is said to be 2 : 3



Note: The ratio of rectangles to  
triangles is said to be 3 : 2

# Ratios

Simplifying a ratio ?

Simplifying a ratio is like simplifying fractions

Fraction :  $\frac{6}{8} = \frac{6^{\div 2}}{8^{\div 2}} = \frac{3}{4}$

Ratio :  $6 : 8 = 6^{\div 2} : 8^{\div 2} = 3 : 4$

# Ratios

## Ratio Calculations

### Learning Intention

1. To show how to do ratio calculations.

### Success Criteria

1. Use tabulating method to work out ratios.
2. Show appropriate working.

# Ratios

## Ratio Calculations

Example : The ratio of boys to girls is 4:5.  
If there are 16 boys, how many girls are there.

| boys  |    | girls  |
|-------|----|--------|
| <hr/> |    | <hr/>  |
|       | 4  | 5      |
| x 4   | 16 | 20 x 4 |

# Ratios

## Ratio Calculations

Example : The ratio of cars to buses is 3:7.  
If there are 49 buses, how many cars are there.

| cars                                                      | buses                                                     |
|-----------------------------------------------------------|-----------------------------------------------------------|
| $\begin{array}{r} 3 \\ \times 7 \\ \hline 21 \end{array}$ | $\begin{array}{r} 7 \\ \times 7 \\ \hline 49 \end{array}$ |