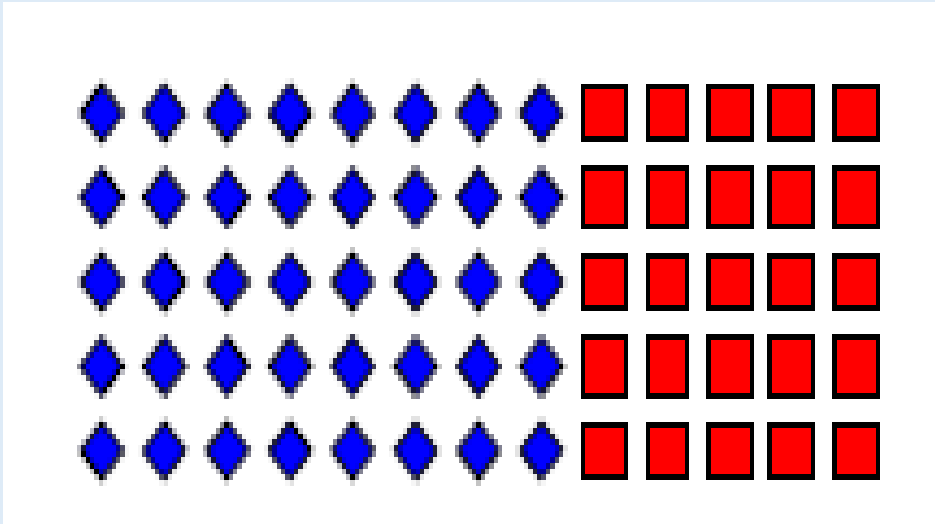# BGE Skills Workshop

Ratios

Ratios

- Ratios allow you to simplify a comparison between 2 or more sets of data.

1. Write down the initial ratio given in the question.
2. Find the **highest common factor** and divide each side by it.
3. Check to see if there is any other common factor you can divide by and if so, repeat the last step. Continue this until there is no common factor.
4. It must be a whole number you have at the end

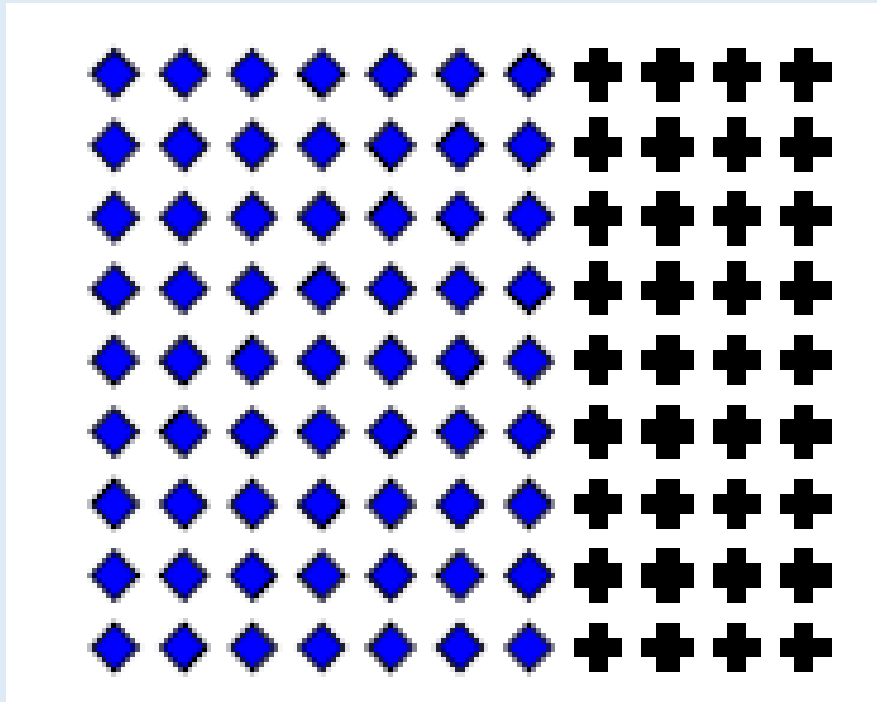# Ratios: Example 1

- *What is the simplest whole number ratio of* ◆ *to* ■

initial ratio 40 : 25

HCF ÷ 5

Simplest Ratio 8 : 5

Ratios: Example 2

What is the ratio of ◆ *to* ✚

What is the simplest whole number ratio

63 : 36
÷ 9
7 : 4

or

63 : 36
÷ 3
21 : 12
÷ 3
7 : 4

Ratios: Example 3

If a car uses 8 gallons of gas to travel 140 miles, what is the ratio of miles : gallons

140 : 8   or   140 : 8
÷ 4   ÷ 2
35 : 2   70 : 4
                 ÷ 2
                 35 : 2

Ratios: Example 4

A grocer bought in 25 cases of apples, 5 cases of pears and 10 cases of oranges. What is the simplest whole number ratio of apples:pears:oranges

$$25 : 5 : 10$$
$$\div 5$$
$$5 : 1 : 2$$