### **EQUIVALENT FRACTIONS**



These fractions are called equivalent fractions.

# **EQUIVALENT FRACTIONS**

Equivalent fractions:

- represent the same number (i.e. mark the same place on the number line)
- are produced by:
  - multiplying the numerator and
    denominator by the same number
  - dividing the numerator and denominator
    by the same number

## **EQUIVALENT FRACTIONS**

Example 1:

Example 2:



#### Fractions should always be written in their simplest forms.

So at the end of a calculation where the result is a fraction, you should check that the fraction is in its simplest form.

## **SIMPLIFYING FRACTIONS**

The simplest form of a fraction is when the numerator and denominator have been divided by the highest common factor (HCF).

example:

$$\frac{28}{63} = \frac{4 \times 7}{9 \times 7} = \frac{4}{9}$$
 (7 is the HCF of 28 and 63)

The fraction  $\frac{4}{9}$  cannot be simplified anymore;  $\frac{4}{9}$  is the simplest form of  $\frac{28}{63}$