Maths- Fractions
This lesson will be live on teams for your class at;
9am-5L
10am-5H
11am-5M

Learning objective; To find the fraction of a shape using world flags.

Warm up- fractions of an amount.

To find the fraction of an amount you need to **divide** the **number** by the **denominator**, then **multiply** it by the **numerator**.
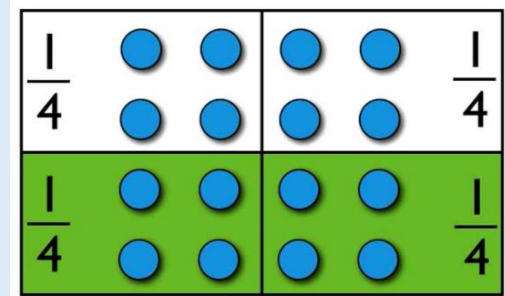
2/5 of **20** = **20** ÷ 5 = **4** , **4** x 2 = 8

2/5 of 20 = 8

1. 2/4 of 8=

2. 5/6 of 12 =

3. 2/5 of 25 =

4. 2/3 of 36 =

$$\frac{2}{4} \text{ of } 16 = 8$$

Work out the following

(1) $\frac{1}{4}$ of 40 = 10   40   10 10 10 10   40÷4=10

(2) $\frac{3}{4}$ of $40 = $30   40   10 10 10 10   40÷4=10

What is a fraction?

A fraction is defined as;

- Part of a **whole**.

- A figure or set of items which has been partitioned **equally.**

They have **numerators** and **denominators** to determine how the whole of something (all of it) is being split equally and how much of it is being represented (coloured/added/used).
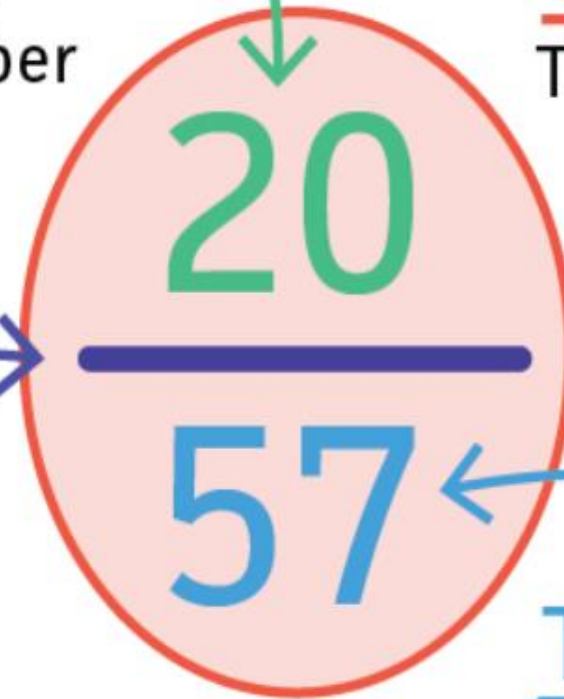
Quick reminder…

The Numerator
The top half of the fraction. The number of parts you have.

The Fraction
The whole thing!

$$\frac{20}{57}$$

The line that separates the numerator and the denominator (doesn't have a name).

The Denominator
The bottom half of the fraction. The number of parts in a whole.

Fraction of a shape

Finding the fraction of a shape relies on separating a whole shape into equal parts, therefore finding the denominator.

Look at these flags, they are partitioned into equal parts, the amount of equal parts determines the denominator.

The amount of those parts you are using will give you the numerator.
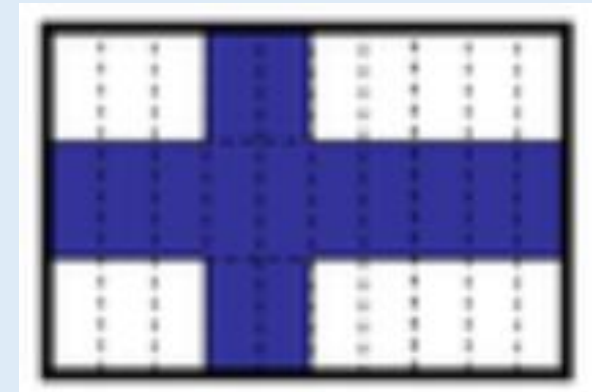On the Italian flag, what fraction is green?
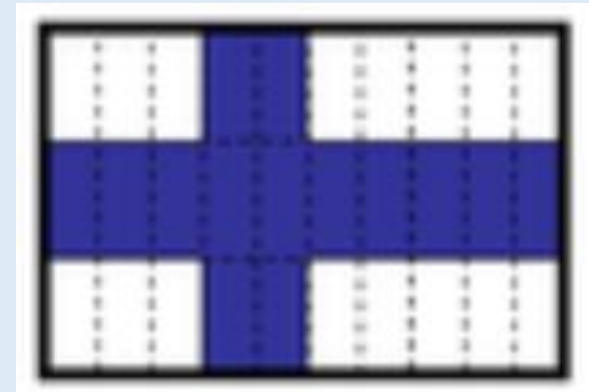
Fraction of a shape

However, this can be more difficult with more complicated
 shapes and flags.

You need to partition the **whole** of the shape into **equal** parts.

The amount of parts determine your **denominator.**

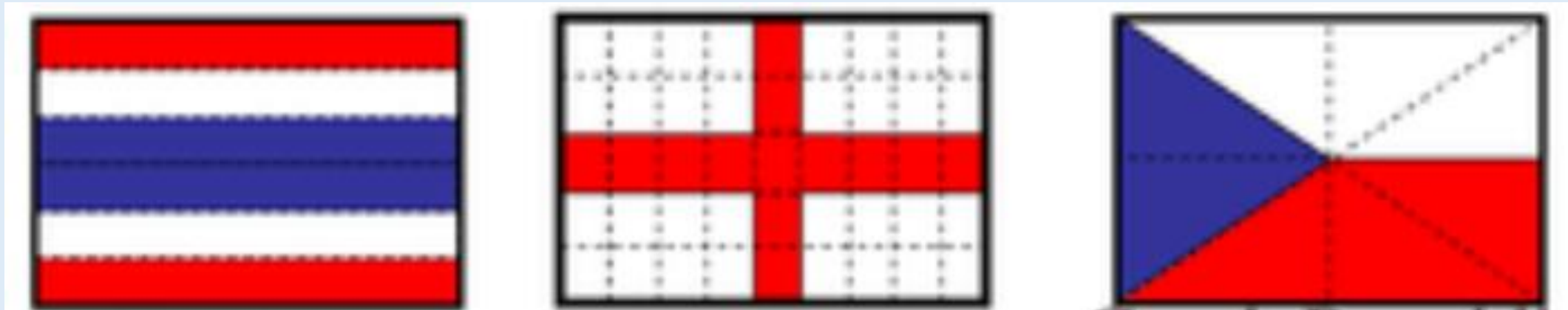**Question: What fraction of the flag is blue?**

The parts which are blue determine your **numerator**.

Fraction of a shape

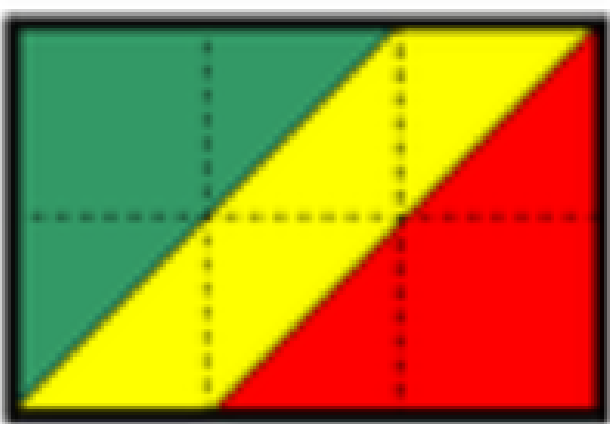However, this can be more difficult with more complicated
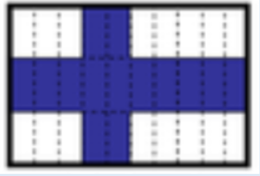shapes and flags.

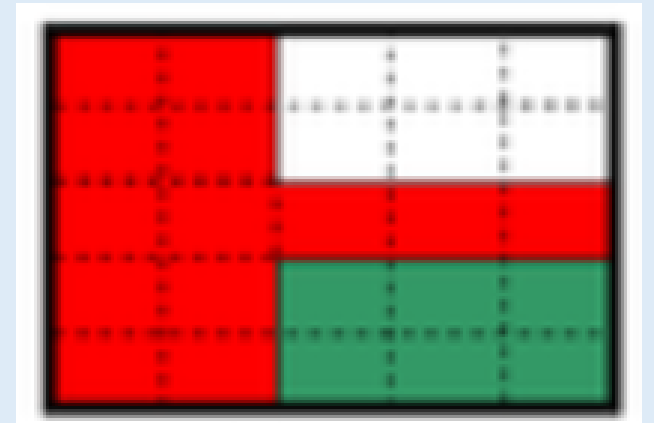You need to partition the **whole** of the shape into **equal** parts.

The amount of parts determine your **denominator.** **30**

Question: What fraction of the flag is blue? 14/30

The parts which are blue determine your **numerator.** **14**

Lets do some together.

What fraction of each flag is ……?

Fluency
What fraction of the flag is...?

1.

2.

3.

4.

5.

Plenary-

Can you create your own flags, where only one quarter has been coloured in.

This sheet is available to print.
Alternatively you could use any paper with a rectangle, which has been partitioned into 8 equal pieces.

Fraction Flags

How many different ways can you make a flag that has one quarter coloured?

Extension
Why not see different ways you can shade 1/2 in a different colour?

P.S. Todays flags came from which countries ?