**Dividing Fractions**

**Motivation:**

We are going to develop the skills needed to solve this problem:

A car drives 46.5km in hours. Calculate its average speed.

**Prior Knowledge:**

To know the terms: numerator, denominator, improper, top heavy.

Equivalent fractions

To know how to convert between mixed numbers and improper fractions

**Check:**

Convert to an improper fraction.

Convert to a mixed number.

**Prior Knowledge:**

To understand how to divide a fraction by a fraction using the concept

of fitting in.

**Check:**

Using a ‘fitting in’ picture, explain why

**Prior Knowledge:**

To multiply fractions quickly and efficiently

**Check: (mini whiteboards)**

Show your method clearly

Give your answers in their simplest form

**Aims:**

To spot a pattern to help divide by fractions more quickly

**Activities:**

A generalisation. Explain why:

**Aims:**

To apply this approach to divide fractions quickly and efficiently

**Activities:**

Examples

Practice: Division D worksheet, section A

**Aims:**

To divide mixed numbers by each other

**Activities:**

Think, pair, share on mini-whiteboards

Class discussion of solutions.

Note of the key point added to books.

Practice: Division D worksheet, section B

**Aims:**

To apply this technique and previous work with fractions to solve contextual problems

**Activities:**

A car drives 46.5km in hours. Calculate its average speed.

Division D worksheet, section C

**Assessment:**

Division D on diagnostic questions.