

Chapter 21 Algebraic Fraction - Formulae

1. I know how to work with **Algebraic Fraction** and that there are 2 types of problems i might be asked to work on:

Express as a single fraction (or simplest form) – can solve this like any fraction using the LCM technique using ‘containers’

Q5 Q20 Page 415

Solving Equations (i.e. with an ‘=’ sign) involving fractions – Flat Pack Technique

We balance by placing a 1 under any terms with no denominator

We look for the LCM of all the denominators)

We write this LCM beside ALL terms

We look for any cancellations and multiply through to get a FLAT linear equation which we can then solve.

Q2 Q16 Q30 Page 416

2. I know how to solve problems involving fractions

Q4 Q10 Page 419

3. I know to do **Algebraic Division**

Q4 Q14 Q24 Page 421

4. I know how to **Rearrange a Formula** to make any letter the subject of the formula

I know that I must consider what is happening to the letter..

If any term is being added or subtracted to the term with the letter then I will add/subtract (the opposite to what is in the formula) to both sides before I look for any cancellations

If the term with the letter in it is being multiplied/divided by a number then I will multiply/divide (the opposite to what is in the formula) all terms in the formula by that number

I will take care to:

Factorise out the letter if it appears in more than 1 term.

Flat pack any formulas with fractions in them before rearranging them

Q2 Q6 Q8 Q10 Q14 Page 423

5. I know how **to Evaluate Formulae** by substituting in the variable values and solving.

6. I know how **to write Formulae**

Q6 Q9 Q12 Page 425

7. I know how to **work with Formulae**

Q7 Q8 Page 425

8. I know how to **write and work with formulae**

Q10 Q11 Q14 Page 425 Q13 Q15 Page 426