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| **Topic/Skill** | **Definition/Tips** | **Example** |
| 1. Fraction | A mathematical expression representing the **division** of one integer by another.  Fractions are written as **two numbers separated by a horizontal line**. | is a ‘proper’ fraction.  is an ‘improper’ or ‘top-heavy’ fraction. |
| 2. Numerator | The **top** number of a fraction. | In the fraction , 3 is the numerator. |
| 3. Denominator | The **bottom** number of a fraction. | In the fraction , 5 is the denominator. |
| 4. Unit Fraction | A fraction where the **numerator is one** and the denominator is a positive integer. | are examples of unit fractions. |
| 5. Reciprocal | The reciprocal of a number is **1 divided by the number**.  The reciprocal of is  **When we multiply a number by its reciprocal we get 1**. This is called the ‘multiplicative inverse’. | The reciprocal of is  The reciprocal of is , because |
| 6. Mixed Number | A number formed of both an **integer part** and a **fraction part**. | is an example of a mixed number. |
| 7. Improper Fractions | Fraction in which the **numerator** is **bigger** than the **denominator**. | is an example of an improper fraction. |
| 8. Simplifying Fractions | **Divide the numerator and denominator by the highest common factor**. |  |
| 9. Equivalent Fractions | Fractions which represent the **same value**. |  |
| 10. Comparing Fractions | To compare fractions, they each need to be rewritten so that they have a **common denominator**.  **Ascending** means **smallest to biggest**.  **Descending** means **biggest to smallest**. | Put in to ascending order : .  Equivalent:  Correct order: |
| 11. Converting between Mixed numbers and Improper Fractions | How many of the **denominator** can you get out of the **numerator**?  Find the **total** number of **unit** **fraction** in the **mixed number**. |  |
| 12. Adding or Subtracting Fractions | Find the **LCM of the denominators** to find a common denominator.  Use equivalent fractions to change each fraction to the **common denominator**.  Then just **add or subtract the numerators** and keep the **denominator the same**. |  |
| 13. Multiplying Fractions | **Multiply** the **numerators** together and **multiply** the **denominators** together. |  |
| 14. Dividing Fractions | **‘Keep it, Flip it, Change it – KFC’**  Keep the first fraction the same  Flip the second fraction upside down  Change the divide to a multiply  Multiply by the reciprocal of the second fraction. |  |
| 15. Fraction of an Amount | **Divide** by the **bottom**, **times** by the **top** | Find of £60 |
| 16. One quantity as a fraction of another. | Make the **first** quantitythe **numerator**  Make the **second** quantitythe **denominator.**  **Simplify** | Write 12 as a fraction of 40. |