# Year 6 Fractions Organiser

## Star Vocabulary

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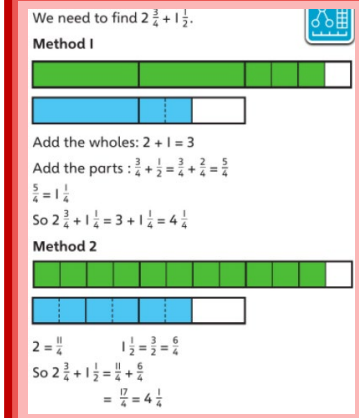
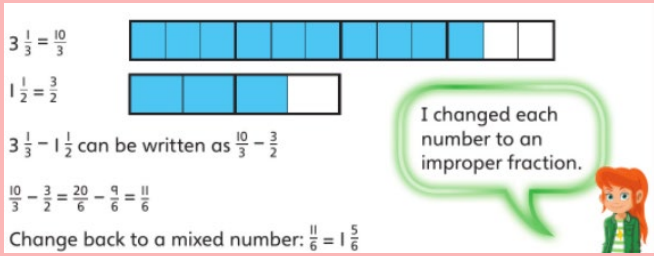
|---|---|
| **Numerator** | The top number in a fraction. It shows how many equal parts we have. |
| **Denominator** | The bottom number in a fraction. It shows how many equal parts the shape/quantity is divided into. |
| **Highest common factor** | The greatest number that is a factor of two (or more) other numbers. |
| **Lowest common multiple** | The lowest common multiple of two numbers is the smallest whole number which is a multiple of both. |
| **improper fraction** | When the numerator is greater than the denominator. |

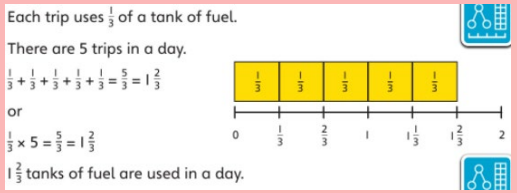
I can find equivalent fractions, convert between improper fractions and add and subtract fractions with the same denominator.

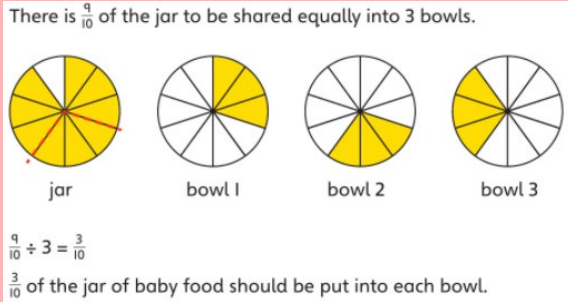
I can compare and order fractions and use the four operations to solve problems involving fractions.

## Calculations Involving Fractions




## Sentence Stems

It can't be… because…
I noticed that…
It must be … because…
If…then…
This is different because…
This is the same because…
This is true here because…
I already know that… so…

## Misconceptions: Why?

**COMMON MISCONCEPTIONS**

When multiplying a fraction by a whole number, children may multiply both the denominator and the numerator, rather than just the numerator.

When presented with questions such as '$\frac{2}{3}$ of a number is 30. What is the number?' children may think that 30 is the whole, not the part, and so find $\frac{2}{3}$ of 30.

## Factual & Conceptual Fluency progression

- Addition and subtraction within 10.
- Addition and subtraction across 10.
- Secure and maintain fluency in addition and subtraction within and across 10, through continued practice.
- Recall the 10 and 5 multiplication tables, and corresponding division facts.
- Recall the 2, 4 and 8 multiplication tables, and corresponding division facts.
- Recall the 3, 6 and 9 multiplication tables, and corresponding division facts.
- Recall the 7-multiplication table, and corresponding division facts.
- Recall the 11 and 12 multiplication tables, and corresponding division facts.
- Secure and maintain fluency in all multiplication tables, and corresponding division facts, through continued practice.