Year 6 Knowledge Organiser - Maths (3) - Autumn 2

| Section 1 | Place value |  |  |  |  |  |  | Adding and subtracting decimals |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  | $\begin{array}{r} 10 . t \\ 18.0 \\ +1.8 .8 \\ \hline \end{array}$ |  |  |  |  |
| Decimals |  |  | $i$ | \% | 㪯 | $\frac{1}{1}$ |  |  | 1) Align digits and decimal |  |  |  |
| Key Vocabulary |  |  |  |  |  |  |  |  |  |  |  |
| Integer |  |  |  |  |  |  |  |  | 2) Add zeros os ${ }^{\text {placelolders } / \text { needed. }}$ |  |  |  |
| Tenths | Value of each digit in a decimal number has a different value - tenths, hundredth, thousandths (3 decimal places) |  |  |  |  |  |  |  | T11 |  |  |  |  |
| Hundredth |  |  |  |  |  |  |  |  |  |  |  |  |
| Thousandths |  |  |  |  |  |  |  | Follow the QR codes and watch the videos for more. <br> Make sure you still use a metacognitive strategy to remember the information. |  |  |  |  |
| Decimal point | Tenths are 10 times the size of hundredths and one-tenth the size of ones $(0.01 \times 10=0.1,1 \div 10=0.1)$. <br> Rounding <br> 1. Underline the place being rounded. <br> 2. Look to the number to the right. <br> 3. 5 or higher - raise the underlined number. <br> 4. 4 or lower keep the underlined number the same. |  |  |  |  |  |  |  |  |  |  |  |
| Place holder |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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You can simplify a fraction if the numerator (top number) and denominator (bottom number) can both be divided by the same number = using factors


When the denominators of two or more fractions the same, they are Common Denominators.








of

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The numerator represents the number of those parts that are selected.
The denominator is the number of parts the whole is divided into.

## Key Questions

What does 3 decimal places mean?

What's the role of a zero in decimal numbers?

When dividing by 1000 what happens to the digits?

What does it mean to simplify a fraction?

What do you use to simplify fractions?

What does equivalent fractions mean?

What do you use to find equivalent fractions?

What does common
denominator mean?

