## Week 8, Day 2

## Equivalence between percentages and fractions.

 Each day covers one maths topic. It should take you about 1 hour or just a little more.1. Start by reading through the Learning Reminders. They come from our PowerPoint slides.

2. Tackle the questions on the Practice Sheet. There might be a choice of either Mild (easier) or Hot (harder)!
Check the answers.

3. Finding it tricky? That's OK... have a go with a grown-up at A Bit Stuck?

4. Think you've cracked it? Whizzed through the Practice Sheets? Have a go at the Investigation...

## Learning Reminders

## Equivalence between percentages and fractions.

It is helpful to remember common equivalent fractions and percentages.
$1 / 10 \equiv 10 \% \quad 1 / 5 \equiv 20 \% \quad 1 / 4 \equiv 25 \% \quad 1 / 2 \equiv 50 \%$

If we remember that ${ }^{1} / 10 \equiv 10 \%$, we can find other tenths by multiplying

$$
\begin{gathered}
\text { If } 1 / 4 \equiv 25 \%, 3 / 4 \equiv 75 \%, \\
\text { since } 3 \times 25=75 .
\end{gathered}
$$

## Learning Reminders

## Equivalence between percentages and fractions.

> A class of children are asked to choose between swimming, cycling and football. $1 / 4$ chose swimming. $3 / 10$ of them prefer cycling. What percentage chose football?


## Practice Sheet Mild <br> Equivalent percentages

Complete the missing percentages.

| Children were asked to vote for cycling, swimming <br> or football as their favourite weekend activity |  |
| :--- | :---: |
| Fraction | Percentage |
| $\frac{1}{2}$ children prefer swimming |  |
| $\frac{1}{4}$ prefer cycling |  |
| The rest prefer football |  |


| Children were asked to vote for dogs, cats <br> or rabbits as their ideal pet |  |
| :---: | :---: |
| Fraction | Percentage |
| $\frac{1}{2}$ prefer dogs |  |
| $\frac{3}{10}$ prefer cats |  |
| The rest prefer rabbits |  |


| Children were asked to vote for oranges, <br> bananas or apples as their favourite fruit |  |
| :---: | :---: |
| Fraction | Percentage |
| $\frac{4}{10}$ prefer bananas |  |
| $\frac{3}{10}$ prefer apples |  |
| The rest prefer oranges |  |

## Practice Sheet Hot <br> Equivalent percentages

Complete the missing percentages.

| Children were asked to vote for dogs, cats <br> or rabbits as their ideal pet |  |
| :---: | :---: |
| Fraction | Percentage |
| $\frac{1}{2}$ prefer dogs |  |
| $\frac{1}{5}$ prefer cats |  |
| The rest prefer rabbits |  |

## Challenge

In another pet survey, fish were voted for by $\frac{1}{20}$ of children, while snakes got $\frac{1}{25}$ of the vote! What percentages are these fractions?

Children were asked to vote for cycling, swimming or football as their favourite weekend activity

| Fraction | Percentage |
| :--- | :--- |
| $\frac{1}{2}$ of children prefer swimming |  |
| $\frac{3}{10}$ of children prefer cycling |  |
| The rest prefer football |  |


| Children were asked to vote for oranges, <br> bananas or apples as their favourite fruit |  |
| :---: | :---: |
| Fraction | Percentage |
| $\frac{2}{5}$ of children prefer |  |
| bananas |  |$\quad$.

Explore more Hamilton Trust Learning Materials at https://wrht.org.uk/hamilton

