## Week 8, Day 3

## Use equivalent fractions to find percentages.

Each day covers one maths topic. It should take you about 1 hour or just a little more.

1. If possible, watch the PowerPoint presentation with a teacher or another grown-up.

OR start by carefully reading through the Learning Reminders.

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...
5. Have I mastered the topic? A few questions to Check your understanding. Fold the page to hide the answers!


## Learning Reminders

## Use equivalent fractions to find percentages.

Unit fractions always have a
numerator of 1, e.g. $1 / 2,1 / 4,1 / 10$.
To find $1 / 4$ of $\mathbf{8 0}$ divide $\mathbf{8 0}$ by 4 . $1 / 4$ of $\mathbf{8 0}=\mathbf{2 0}$.

> Remember we can find unit fractions of a number by dividing by the denominator (bottom number) of the fraction.

Non-unit fractions always have a numerator (top number) of more than 1 , e.g. $3 / 4,2 / 5,7 / 10$.

Remember we can find non-unit fractions of a number by dividing by the denominator,

To find $2 / 5$ of 30 divide 30 by 5 then multiply by 2 . $1 / 5$ of $30=6,2 / 5$ of $30=12$.

## Learning Reminders

## Use equivalent fractions to find percentages.

Hamilton Primary school has a $\mathbf{5 0 0 0}$ grant to spend to improve the outside space. All 200 children were asked to vote for what they would like. $\mathbf{5 0 \%}$ voted for a wildlife pond, $\mathbf{2 5 \%}$ voted for a climbing frame, and $\mathbf{2 5 \%}$ voted for friendship benches.

We can use equivalent fractions to help find percentages!


## Learning Reminders

Use equivalent fractions to find percentages.
Moreton Primary also has $£ 500$ grant. They have $\mathbf{1 5 0}$ children. 10\% voted for the friendship benches, $\mathbf{2 0 \%}$ for a climbing frame and $\mathbf{7 0 \%}$ for a wildlife pond.


## Practice Sheet Mild Comparing percentages

The following new woodlands have been planted:

## Burley Common <br> 100 trees <br> 50\% oak, 20\% ash, $15 \%$ beech, $15 \%$ willow

## Merttens Meadow

300 trees
$20 \%$ oak, $20 \%$ hazel, $40 \%$ willow, $20 \%$ beech

## Chidgey Common

200 trees
$40 \%$ oak, $30 \%$ beech, $10 \%$ ash, $20 \%$ sweet chestnut

## Holes Hollow <br> 200 trees <br> $25 \%$ oak, $10 \%$ hazel, $20 \%$ willow, $15 \%$ beech, $30 \%$ ash

Calculate how many trees of each type there are in each of the four woodlands.

## Practice Sheet Hot <br> Comparing percentages

The following new woodlands have been planted:

```
Burley Common
100 trees
50% oak, 20% ash, 15% beech, 15% willow
Merttens Meadow
150 trees
20% oak, 20% hazel, 40% willow, 20% beech
```


## Chidgey Common

```
200 trees
40\% oak, 30\% beech, 10\% ash, 20\% sweet chestnut
Holes Hollow
120 trees
\(25 \%\) oak, \(10 \%\) hazel, \(15 \%\) willow, \(30 \%\) beech, \(20 \%\) ash
```

Calculate how many trees of each type there are in each of the four woodlands.

## Challenge

In Weston Wood, there are 280 trees, as follows: 14 holly
126 lime
84 beech
56 silver birch.
What percentages do these numbers represent?

