# Week 8, Day 2

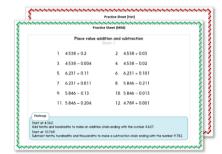
**Equivalence between percentages and fractions.** 

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

 Start by reading through the Learning Reminders. They come from our *PowerPoint* slides.

- 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?

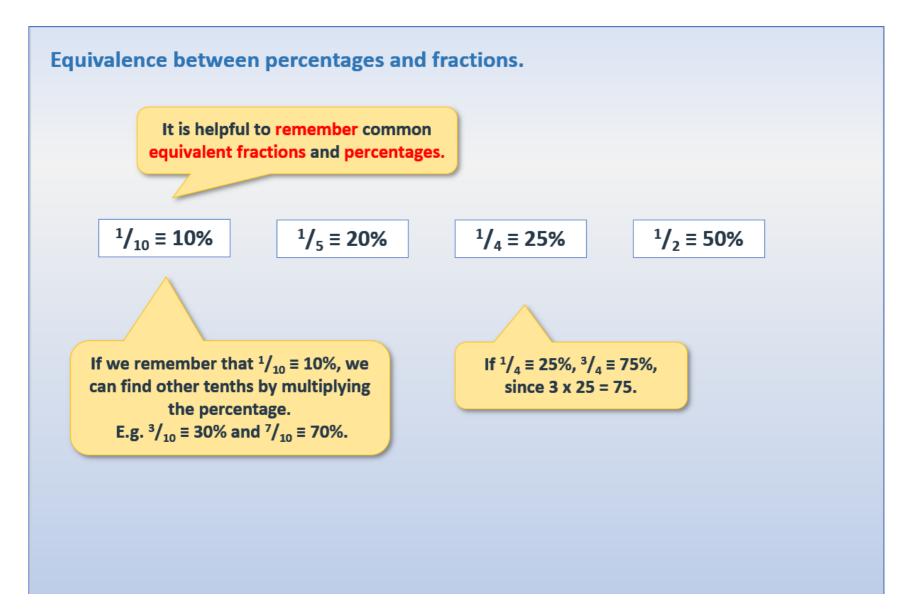
4. Think you've cracked it? Whizzed through the Practice Sheets? Have a go at the Investigation...

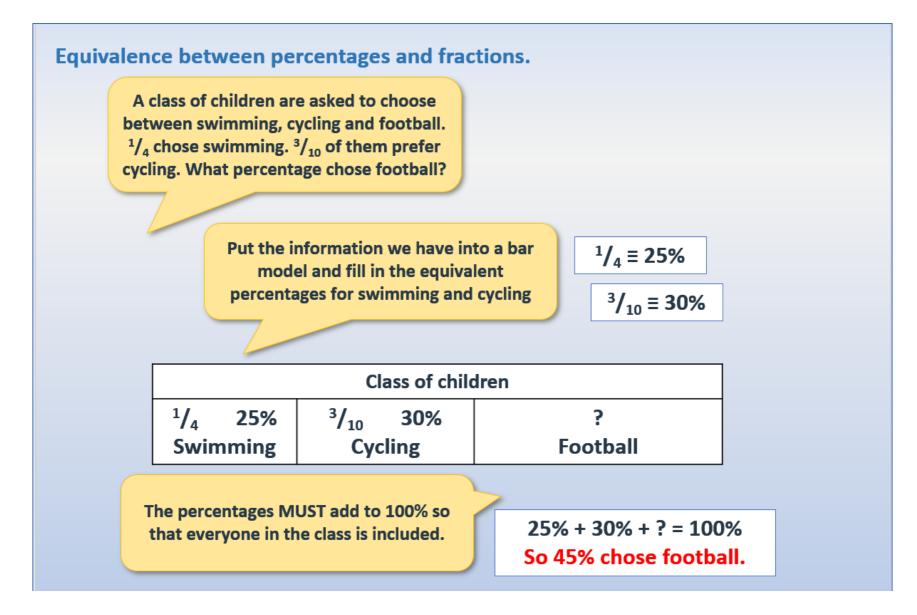






### **Learning Reminders**





### Practice Sheet Mild Equivalent percentages

Complete the missing percentages.

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

Fraction	Percentage
$rac{1}{2}$ children prefer swimming	
$rac{1}{4}$ prefer cycling	
The rest prefer football	

Children were asked to vote for dogs, cats	
or rabbits as their ideal pet	

Fraction	Percentage
$\frac{1}{2}$ prefer dogs	
<u>3</u> prefer cats 10	
The rest prefer rabbits	

Children were asked to vote for oranges, bananas or apples as their favourite fruit

Fraction	Percentage
$rac{4}{10}$ prefer bananas	
$\frac{3}{10}$ prefer apples	
The rest prefer oranges	

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<b>Practice Sheet Hot</b>
Equivalent percentages

Complete the missing percentages.

Children were asked to vote for dogs, cats 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?

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

Children were asked to vote for cycling, swimming

or football as their favourite weekend activity

Children were asked to vote for oranges, bananas or apples as their favourite fruit

Fraction	Percentage
$\frac{2}{5}$ of children prefer bananas	
$\frac{3}{10}$ of children prefer apples	
The rest prefer oranges	

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### **Practice Sheets Answers**

#### Equivalent percentages (mild)

The rest prefer football

Children were asked to vote for cycling, swimming or football as<br/>their favourite weekend activityFractionPercentage $\frac{1}{2}$  children prefer swimming50% $\frac{1}{4}$  prefer cycling25%

Children were asked to vote for dogs, cats or rabbits as their ideal pet

Fraction	Percentage
$\frac{1}{2}$ prefer dogs	50%
$\frac{3}{10}$ prefer cats	30%
The rest prefer rabbits	20%

Children were asked to vote for oranges, bananas or apples as their favourite fruit	
Fraction	Percentage
$\frac{4}{10}$ prefer bananas	40%
$\frac{3}{10}$ prefer apples	30%
The rest prefer oranges	30%

#### Equivalent percentages (hot)

Children were asked to vote for cycling, swimming or football as their favourite weekend activity	
Fraction	Percentage
$\frac{1}{2}$ children prefer swimming	50%
$\frac{3}{10}$ prefer cycling	30%
The rest prefer football	20%

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## **Practice Sheets Answers**

#### Equivalent percentages (hot) continued

Children were asked to vote for dogs, cats or rabbits as their ideal pet

Fraction	Percentage
$\frac{1}{2}$ prefer dogs	50%
$\frac{1}{5}$ prefer cats	20%
The rest prefer rabbits	30%

Children were asked to vote for oranges, bananas or apples as their favourite fruit									
Fraction	Percentage								
$\frac{2}{5}$ prefer bananas	40%								
$\frac{3}{10}$ prefer apples	30%								
The rest prefer oranges	30%								

Challenge

Fish:  $\frac{1}{20} = 5\%$ Snakes:  $\frac{1}{25} = 4\%$ 

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### Work in pairs

Things you will need:

• Picture, fractions and percentages cards

### What to do:

- Work together to match each 100 square picture to the matching fraction and percentage cards.
- Can you match 100% of the cards before time is up?

#### S-t-r-e-t-c-h: £80 10 **1**0 10 **1**0 <u>10</u> 10 10 10 10 <u>10</u> 10% 10% 10% 10% 10% 10% 10% 10% 10% 10%

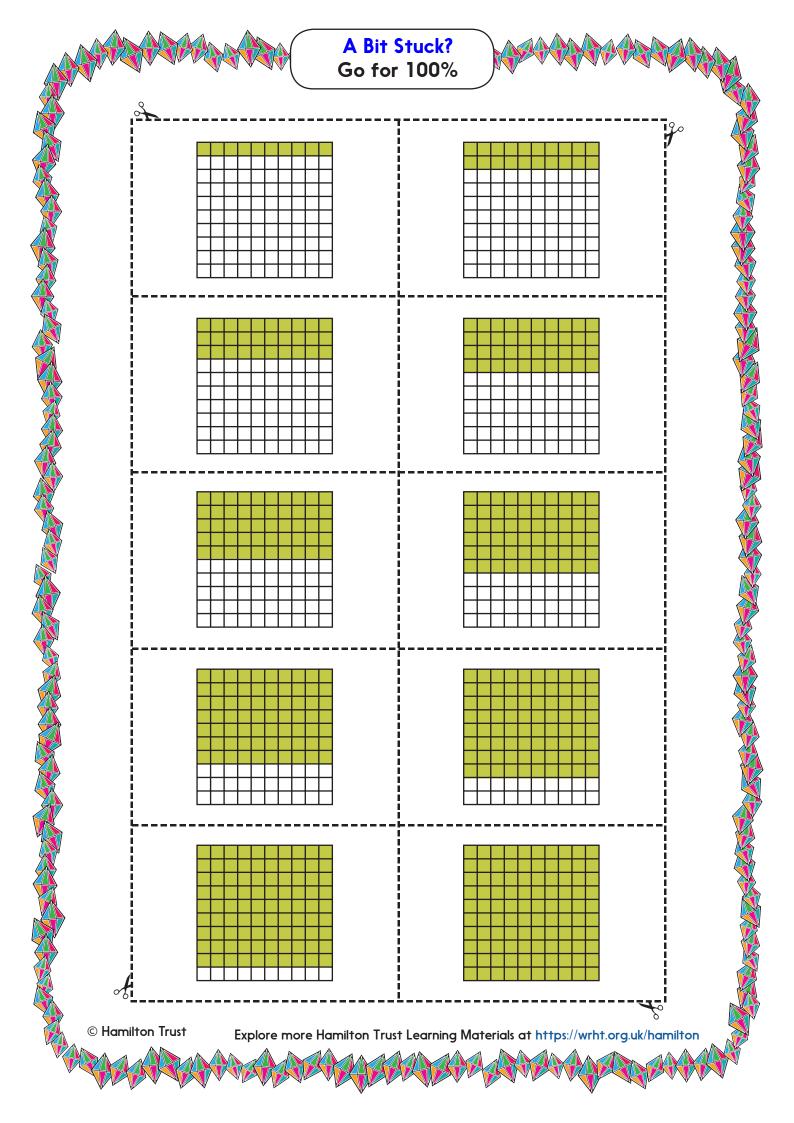
Use the bar model to help you to work out 10%, 20% and 50% of £80.

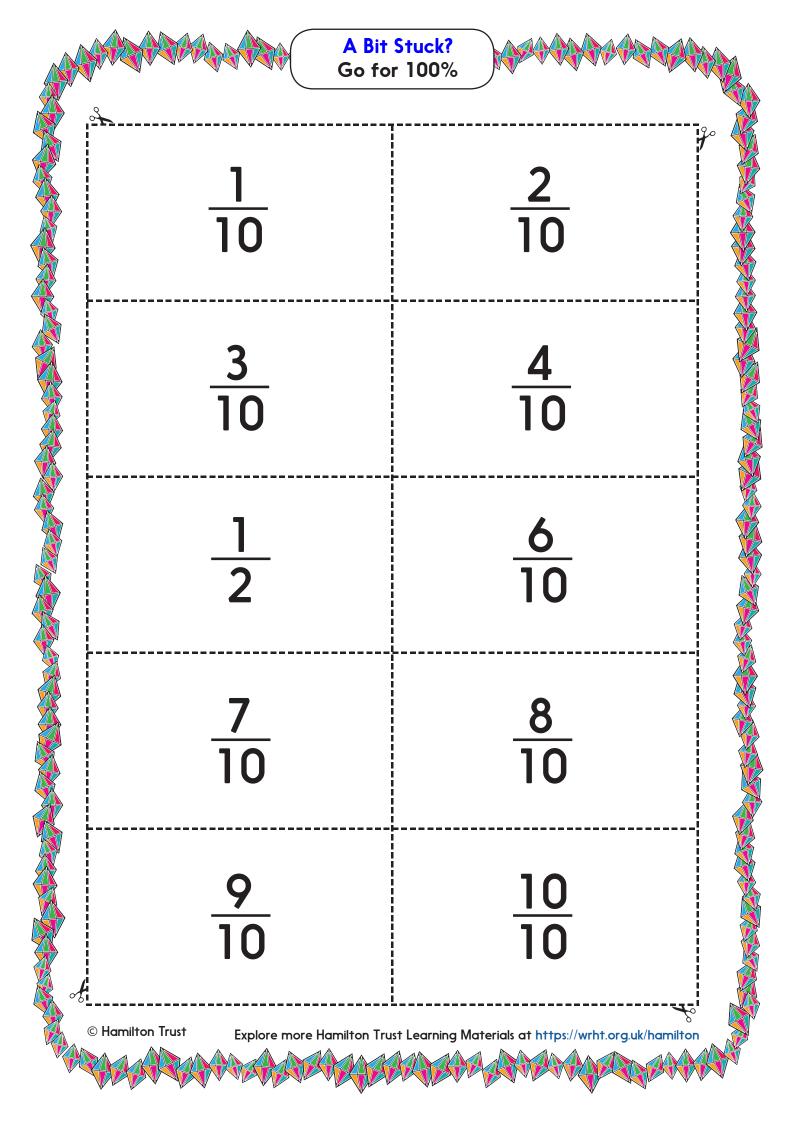
#### Learning outcomes:

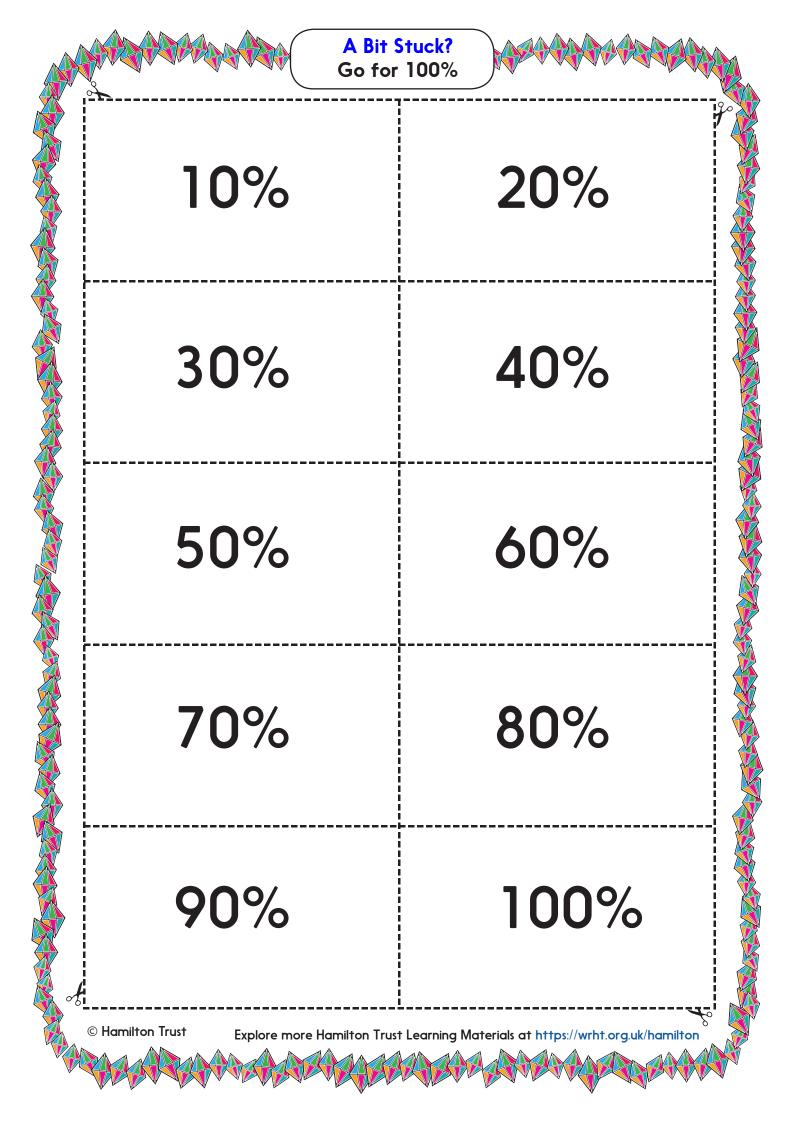
• I understand what percent means.

- I know the equivalent percentages for half and tenths.
- I am beginning to find 10%, 20% and 50% of amounts.

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