Edward Peake Church of England Middle School		
Topic: Percentages	**Year: 6**	**NC Strand: Number**

What should I already know?
● How to recognise the per cent symbol (%) and ● That per cent relates to 'number of parts per hundred', and ● How to write a percentage as a fraction with denominator 100, and as a decimal ● How to solve problems which require knowing percentage and decimal equivalents of ½ and ¼

What will I know by the end of the unit?
● How to convert fractions to equivalent fractions where the denominator is 100 in order to find the percentage equivalent ● How to use equivalent fractions and decimals to find the equivalent percentage ● How to convert between fractions, decimals and percentages to order and compare them ● How to use fractional equivalences to find percentages of amounts. ● How to use different methods of finding certain percentages e.g. Finding 20% by dividing by 10 and multiplying by 2 or by dividing by 5 ● How to find the missing whole or a missing percentage when the other values are given (Using bar models)

Vocabulary			
Per cent	equivalent	tenths	compare
fraction	denominator	hundredths	Equal parts
convert	decimal	Order	dividing
whole			

Investigate/Homework tasks
● Homework will be set by your teacher using google classroom ● You should complete at least 30 minutes of maths tasks on Maths Whizz (not games). Please attend help sessions if you do not have access to the internet at home ● Additional work you could complete: ○ Find out more about the meaning of the vocabulary list using http://www.amathsdictionaryforkids.com/ ● To challenge yourself: Answer the key questions to deepen your knowledge

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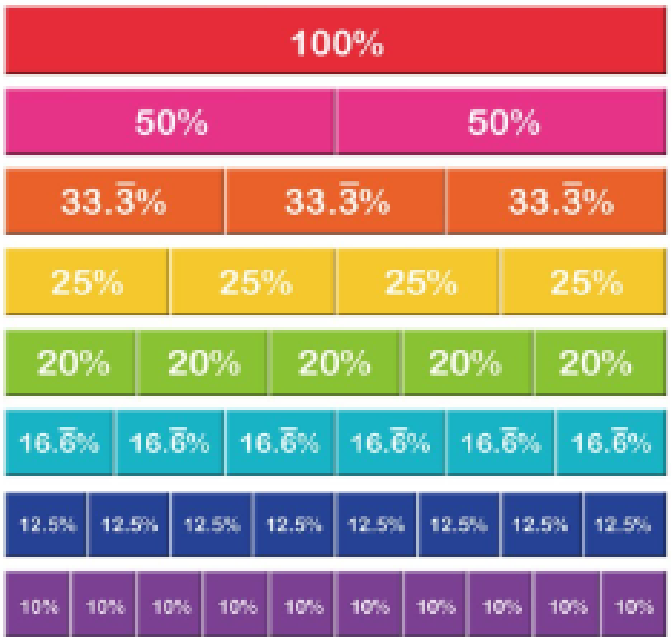
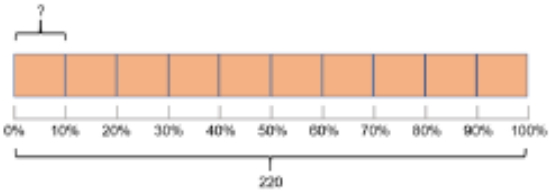
Diagram/ Key Information



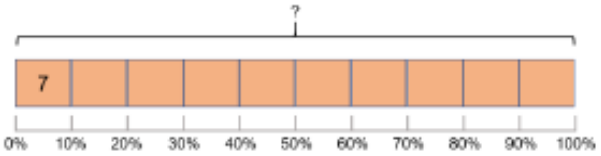
Mo uses a bar model to find 30% of 220



10% of 220 = 22 , so 30% of 220 = 3 × 22 = 66

If 7 is 10% of a number, what is the number?

Use the bar model to help you.



Key Questions

- What does the word 'percent' mean?
- How can you convert tenths to hundredths?
- Why is it easy to convert fiftieths to hundredths?
- What other fractions are easy to convert to percentages?

- How does converting a decimal to a fraction help us to convert it to a percentage?
- How do you convert a percentage to a decimal?
- Can you use a hundred square to represent your conversions?

- Why do we divide a quantity by 2 in order to find 50%?
- How do you calculate 10%of a number mentally?
- What's the same and what's different about 10% of 300and 10%of 30?

- Is dividing by 10 and multiplying by 5 the most efficient way to find 50%? Explain why.
- Is dividing by 10 and multiplying by 9 the most efficient way to find 90%? Explain why.
- How many ways can you think of to calculate 60% of a number?

- If we know a percentage, can we work out the whole?

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- If we know the whole and the amount, can we find what percentage has been calculated?