Fractions and percentages

Uzma invests £4000 in a bank account for 1 year. Interest is paid at a rate of 2.5% per annum. How much interest will Uzma get at the end of 1 year?	
$\frac{1}{100} \times \pounds4000 = \pounds$	(2 marks)
A farmer has 48 llamas. 30 of the llamas are female. (a) Work out 30 out of 48 as a percentage.	
<u>30</u> × 100 =	(2 marks)
60% of the female llamas are pregnant.(b) Write the number of pregnant female llamas as a fraction of the 48 llamas. Give your answer in its simplest form.	
Meera works in an electrical shop. Each week she gets paid £160 plus 15% of the value of the goods she sells. One week Meera sold £3200 of goods. Work out the total amount she was paid this week.	(2 marks)
Hard somula incorrected for the formula incorrected for the formula incorrected formula incorrected for the formula incorrected formula incorected formula incorrected formula incorrecte	(3 marks)
	Uzma invests £4000 in a bank account for 1 year. Interest is paid at a rate of 2.5% per annum. How much interest will Uzma get at the end of 1 year? $\frac{1}{100} \times \pounds4000 = \pounds$ A farmer has 48 llamas. 30 of the llamas are female. (a) Work out 30 out of 48 as a percentage. $\frac{30}{100} \times 100 =$ 60% of the female llamas are pregnant. (b) Write the number of pregnant female llamas as a fraction of the 48 llamas. Give your answer in its simplest form. Meera works in an electrical shop. Each week she gets paid £160 plus 15% of the value of the goods she sells. One week Meera sold £3200 of goods. Work out the total amount she was paid this week. MoteSale. MoteSale. MoteSale. He pays $\frac{1}{5}$ of the £16 000 m rent. He spends 15% of the £16 000 n food. Work out how much of the £16 000 Liam has left.

			£	(4 marks)
C	5	At an outdoor centre, 140 students each choose one activity.		
		$\frac{1}{7}$ of the students choose rock climbing.		
		$\frac{3}{7}$ of the students choose rafting.		
		All the rest of these students choose abseiling.		
		How many students choose abseiling?		



Reverse percentages and

5 Pete invested £5100 for *n* years in a savings account.
He was paid 4.5% per annum compound interest.
At the end of the *n* years he had £6641.53 in the savings account.
Work out the value of *n*.

Choose some values for *n* and work out the amount in the savings account after *n* years.

ALGEBRA



1 Here are the first five terms of an arithmetic sequence. 5 9 1 13 17 Find an expression, in terms of *n*, for the *n*th term of the sequence. Guided zero term + ... + ... + ... Work out the difference between each term. Then 5 13 1 9 17 work out the zero term. (2 marks) nth term =n + = Here are the first five terms of an arithmetic sequence. 2 -37 2 17 12 Find an expression, in terms of *n*, for the *n*th term of the sequence. (2 marks) (a) Here are the first five terms of an arithmetic sequence. 3 3 7 11 15 19 Find an expression, in terms of *n*, for the *n*th term of the sequence. Notesale.co (2 marks) (b) Paul says that 72 is a ce at the type of numbers in the sequence. Paul is wrot e Ex (1 mark) (a) The *n*th term of a sequence is 8n + 3Write down the first three terms of this sequence. Guided 8 × I + 3 = Ist term n = 18 × + 3 = 2nd term n =8 × + 3 = (2 marks) 3rd term n =Try and find a value for n (b) Jenny says that 45 is a term in this sequence. that gives a result of 45. Jenny is wrong. Explain why. (1 mark) The *n*th term of a sequence is 3n - 15 Work out the 50th term of this sequence. (1 mark)