Twig C	ould You Owe Mo	ore than America?
NAME: .		
CLASS:		
DATE:		
	Basic	
1) Convert the following dea	cimals to percentages:	
a) 0.2	b) 0.125	c) 0.48
d) 0.13	e) 0.045	f) 0.0025
2) Convert the following frac	ctions to percentages:	
a) $\frac{11}{100}$	b) $\frac{31}{50}$	c) $\frac{17}{25}$
100	50	25
d) $\frac{1}{2}$	e) $\frac{3}{4}$	f) $\frac{2}{5}$
2	4	5
3) Find:		
a) 10% of £25	b) 50% of £5500	c) $33\frac{1}{3}$ % of £36
4) 30% of the children in a c	class are left-handed. If there are 30 child	ren in the class, how many are right-handed?
5) A plot of land worth £28,0	000 in 2009 is now worth 15% more. Wha	t is the new value of the land?



Could You Owe More than America?

NAME:	
CLASS:	
DATE:	

Core

1) Sarah invests £4500 in a savings account. In one year it earns £135 interest. Calculate the annual interest rate as a percentage.

2) A loaf of bread costs £1.23. The price is increased by 3%. Calculate:a) the increase in priceb) the new price

3) A garage buys a car for £11,975. It sells the same car for £13,999.

a) How much profit does the garage make?

b) Express this profit as a percentage of the cost price.

4) Find the compound interest on £1600 at a rate of 4.5% per annum over a period of five years.

5) The number of bacteria in a test tube is 60,000. The bacteria reproduce at a rate of 35% every four hours. Calculate the number of bacteria in the test tube after one day.

6) 60 millilitres of a drug is injected into a patient at 12 noon. The amount of drug in the body falls by 6.5% per hour. Calculate the amount of drug in the body at 4pm.



Could You Owe More than America?

NAME:	
CLASS:	
DATE:	

Advanced

1) Mr and Mrs Brown bought their house for £179,000. For the last three years its value has appreciated by 4.5%. What is the present value of the house?

2) Kevin's new car cost £15,995. Over the last two years it has depreciated by 15% each year. Calculate the present value of Kevin's car.

3) Simplify: a) $y^4 \times y^3$	b) <i>c</i> ⁶ x <i>c</i> ⁻³	c) $3m^4 \times 2m^2$
d) 5 <i>d</i> -² x 2 <i>d</i> - 5	e) (2 <i>p</i> ³) ²	f) (3 <i>n</i> -3) ²
g) (<i>a</i> ²) ²	h) (p ³)-³	i) (9 <i>n</i> ³)-4



Could You Owe More than America?

Basic		
1) a) 20%	b) 12.5%	c) 48%
d) 13%	e) 4.5%	f) 0.25%
2) a) 11%	b) 62%	c) 68%
d) 50%	e) 75%	f) 40%
3) a) £2.50	b) £2750	c) £12

4) 21 children are right-handed

5) £32,200

Core		
1) 3%		
2) a) £0.04	b) £1.27	
3) a) £2024	b) 16.9%	
4) £393.89		
5) 363,207 bacteria.		

6) 45.9ml

Advanced		
1) £204,268.74		
2) £11,556.39		
3) a) y ⁷	b) <i>c</i> ³	c) 6 <i>m</i> ⁶
d) 10 <i>d</i> ⁻⁷	e) 4 <i>p</i> ⁶	f) 9 <i>n</i> -6
g) <i>a</i> ⁴	h) <i>p</i> -9	i) $\frac{1}{6561} n^{-12}$