



# Could You Owe More than America?

NAME: .....

CLASS: .....

DATE: .....



## Basic

1) Convert the following decimals to percentages:

a) 0.2

b) 0.125

c) 0.48

d) 0.13

e) 0.045

f) 0.0025

2) Convert the following fractions to percentages:

a)  $\frac{11}{100}$

b)  $\frac{31}{50}$

c)  $\frac{17}{25}$

d)  $\frac{1}{2}$

e)  $\frac{3}{4}$

f)  $\frac{2}{5}$

3) Find:

a) 10% of £25

b) 50% of £5500

c)  $33\frac{1}{3}\%$  of £36

4) 30% of the children in a class are left-handed. If there are 30 children in the class, how many are right-handed?

5) A plot of land worth £28,000 in 2009 is now worth 15% more. What is the new value of the land?





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## 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)  $c^6 \times c^{-3}$

c)  $3m^4 \times 2m^2$

d)  $5d^{-2} \times 2d^{-5}$

e)  $(2p^3)^2$

f)  $(3n^{-3})^2$

g)  $(a^2)^2$

h)  $(p^3)^{-3}$

i)  $(9n^3)^{-4}$



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## ANSWERS

### 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) $c^3$    | c) $6m^6$                   |
| d) $10d^{-7}$ | e) $4p^6$   | f) $9n^{-6}$                |
| g) $a^4$      | h) $p^{-9}$ | i) $\frac{1}{6561} n^{-12}$ |