

1. Find the following **without** a calculator :-

- (a) 20% of £70      (b) 30% of £140  
(c)  $33\frac{1}{3}\%$  of £120      (d) 5% of £8000  
(e) 60% of £3000      (f)  $12\frac{1}{2}\%$  of £400.



2. Value Added Tax (**V.A.T.**) is added on to most goods bought, and is paid to the government. V.A.T. is charged at 20%.

I bought a new cooker from Comco for £280 **plus** VAT.



- (a) Calculate the VAT due on the cooker.  
(b) How much did the cooker cost me ?

*You may use a calculator for the rest of this page, but you must show all working clearly :-*



3. Last December, I booked my holidays to the Canary Islands for £480. In May, I was told I had to pay a surcharge of 6%.

How much did my holiday really cost me ?

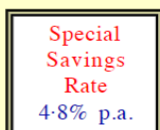
4. A Bell PC I wanted to buy, was for sale in Agros priced £490.

Cotem Stores was selling it for 12% less.

How much were Cotems charging ?

5. Scotia Bank's annual interest rate was 4.8%.

Bruce deposited £2400 in Scotia Bank.



- (a) How much interest would he have received if he'd left it in the bank for 1 year ?  
(b) If Bruce withdrew his money after 7 months, how much interest should he have expected to receive ?

6. Change to a percentage :- (a)  $\frac{17}{20}$  (b)  $\frac{13}{16}$ .

7. Georgie scored 27 out of 40 in her driving test written paper.

She needs a score of 65% to pass.

Did Georgie pass ? (*Justify*).



8. I bought an iPod for £200 and sold it for £145.

- (a) How much of a loss did I make ?  
(b) Express the loss as a percentage of what it cost.

9. Safe-Coe bought in a crate of 10 Christmas turkeys for £80.00.

They manage to sell all of them for £11.50 each.



Calculate the **total** profit and express it as a percentage of the cost price.

10. Julie invested £2000 in her bank for 3 years. The interest rate stayed fixed at 4.5% p.a.

Calculate how much interest Julie was due at the end of the 3 year period.

11. Mr Fixit lends money at the very high interest rate of 15% **per month**, (*compound interest*).

Tom borrows £500 from Mr Fixit and agrees to pay it back, with the interest, 3 months later. How much will Tom have to pay back ?

12. I bought a new car for £12 500 in January 2010

Its value **depreciated** by 15% the first year, 20% the second and 25% during the third year.

How much was it worth in January 2013 ?

13. When he reached 13, Donnie's dad increased his weekly pocket-money by 25%.

Donnie's pocket money then went up to £15.



How much did Donnie get per week when he was only 12 ?

14.



The shop's sale sign said

**"20% off everything"**.

Jane bought a denim skirt in the sale for £24.00.

What would it have cost Jane **before** the sale ?

## ANSWERS

1. a £14 b £42 c £40  
d £400 e £1800 f £50
2. a £56 b £326
3. £508.80
4. £431.20
  
5. a £115.20 b £67.20
6. a 85% b 81.25%
7. 67.5% (yes)
8. a £55 b 27.5%
9. profit = £35 % profit = 43.75%
10. £282.33
11. £760.44
12. £6375
13. £12
14. £30