Percentages

Exercise 1 – Non Calculator

1) **Work out:**

   a) 50% of £84   **b)** 25% of £1000   **c)** 20% of £80

   d) 10% 0f £40   **e)** 20% of £6400   **f)** 33 $\frac{1}{3}$ % of £81

   g) 50% of £9   **h)** 10% of £52   **i)** 10% of £63

   j) 75% of £48   **k)** 75% of £92   **l)** 66 $\frac{2}{3}$ % of £45

   m) 33 $\frac{1}{3}$ % of £7.20   **n)** 66 $\frac{2}{3}$ % of £153·60   **o)** 75% of £61

   p) 10% of £15·50   **q)** 20% of £13·20   **r)** 10% of 20p

2) A turtle laid 132 eggs. 50% of them were eaten by birds.
   How many were eaten by birds?

3) 20% of the pupils in a school are left handed.
   If there are 1100 pupils, how many of them are left handed?

4) 25% of the items sold at a car boot sale were CDs.
   How many CDs were sold if there were 5400 items?

5) In Glasgow in 2009, it was sunny for 20% of the time.
   If there are 365 days in a year, how many days was it sunny for?

Exercise 2 - Calculator

1) Calculate:

    a) 7% of £16   **b)** 9% of £65   **c)** 41% of £25   **d)** 89% of £530

    e) 17% of £380   **f)** 22% of £60   **g)** 46% of £5   **h)** 22% of £680

    i) 7% of £50   **j)** 19% of £60   **k)** 35% of £14   **l)** 11% of £90

    m) 44% of £12.50 **n)** 5% of £17   **o)** 6% of £90   **p)** 84% of £68.50

    q) 8·5% of £64   **r)** 7·2% of £620 **s)** 3.1% of £540 **t)** 10.7% of £889

    u) $4\frac{1}{2}$ % of £18   **v)** $12\frac{1}{2}$ % of £84 **w)** $3\frac{1}{2}$ % of £650 **x)** $2\frac{1}{2}$ % of £12

Exercise 3 – Problem Solving

1) Heidi is offered 11% of £350 or 45% of £80.
Which offer should Heidi take?

2) Goats' cheese contains 15% fat.
How much fat is there in a pack which contains:

    a) 240g   **b)** 460g   **c)** 0·86kg   **d)** 0·38kg

3) Of the 3 cakes below, which one, *per helping*, is better for you in
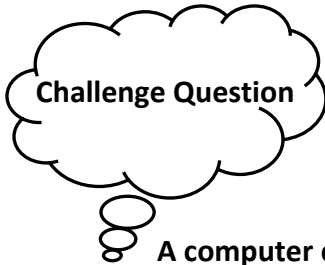terms of fat content? (assume the cupcake is 1 helping)

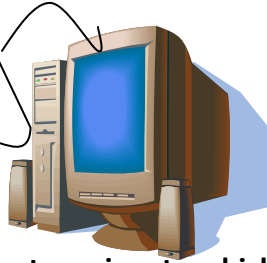| 500g Chocolate Cake	250g Carrot Cake	50g Cupcake
18% Fat	8% Fat	12% Fat

4)

Challenge Question

£860

A computer catalogue quotes prices to which a tax of 20% (VAT) must be added. What would be the price of the computer above?

3) **VAT** is short for 'value added tax'. It is a tax on goods and is money paid to the government. The current rate of V.A.T. is 20%.

Work out the **VAT** on each of the items shown below.

a)

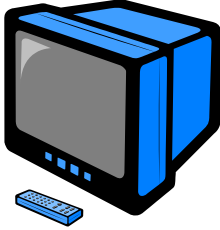Camera £142

b)

Fridge £285

c)

Video HiFi £680

d)

Carpets £1250

e)

Colour T.V.

Cost = £689

f)

Computer

Cost = £2650

g)

Car repair Bill

4 new tyres at £44.75 each	£
Oil	£3.89
Car check	£19.95
New Exhaust	£63.75

Work out the total
then add VAT to get the Bill.

Total = £

VAT = £

Bill = £

h)

Windows

Work out the VAT to be paid
on installing 8 new windows
at £38.55 each.