```
.1. 2010 Paper 2 0.1
                                        1.25% of 84000 = 21000
  1 100% -25% = 75% = 0.75 V
                                          84000 -21000= 63000-
  . weight after 3 days = (0.75) x 84000 / 1. 25 % of 63000 = 15750
                       = 35437.5 ~
                                          63000 - 15750 = 47250 V
               weight = 35400 t (3 sig figs)
                                         25% of 47050 - 11812.5
                                         Weight = 47250 - 11812.5
                                         weight = 35437.5
                                         weight = 35400 t (3 sig Figs) (440)
,2. 2009
             Paper 2 08
                                       1.50% of do = 18
  · 100% -208 =808 =0.8
                                          90-18 = 72
  · fat content
    after 3yrs = (0.8)3×90 ~
                                        -20% of 72 = 14.4
              = 46.08 q. V
                                          72 - 144 = 57.6 /
  · 30% of 90=45g so the
                                        120% of of of 11.52
    company is shull logg
                                           57.6-11.52 = 46.08 4
   over the toget fat contect.
                                        · see method I for consumer.
                                                                (ARE)
.3. 2008 Paper 2 Q1
                                        18% of 42000 = 3360
  01008 +89 = 1088 = 1.08
                                        42000 + 3360 = 45360 V
  · Amount of waste
   apter 3yrs = (1.08) x 42000 ~
                                       1.8% of 45360 = 3628.8
              = 629 07.904 V
                                         45360 + 3628.8 = 48988.8
             = 52900 (399 figs) V
     waste
                                       1'8% of 48988,8 = 3919,104
      recycled
                                        weight = 4898818 + 3919-104
                                              = 52907,904
                                        weight = 52900 t (3 ag sigs)
                                                                (4ku)
.4. 2008 Paper 2 Q3. (calculating original amount)
    100% -20% = 50%
```

80% of original = 45

1% of onghal = 45;80 100% of onghal = 45;80×100 original cost = £56.25

```
.5. 2007 Paper 2 01
  · 100% +4.5% =104.5% = 1.045 / 1 . 4.5% of 600 =
                                    600 + 27 = 627 V
  · value after 3
         years = (1.045)3 x 600,
                                 · 4.58 q 627 = 28.215
        Value = $684.70 /
                                    627 + 28. 215 = 655.215 /
                                  14.5% of 655.215 = 29.484675
                  (nearest perny)
                                   ·655·215+ 29·484675 = [684.70 /
                                                         necrest perry.
                                   note: rounding to nearest permy
                                  throughout working were give the
                                   same onswer.
                            (caiquate orginal amount).
.6. 2006 Paper 2 Q3
     100% +86 = 1088.
            108% of bd price = 324
              1% of bod price = 324 : 108
```

note: You could guess remede but will need to snow evidence of how you decided on first onswer.

100% of bid price = 324 = 108 x 100

· An onswer of \$300 with no working will get no marks.

bud price = £300.

BKU)

```
17. \frac{2004}{1008} Paper 2 \frac{04}{1008}

1008 - 208 = 808 = 0.8 \( \text{ 250} = 50 \)

12 noon = 3pm = 3hrs

250 - 50 = 200

200 - 40 = 160 \( \text{ 200} = 40 \)

20 - 40 = 160 \( \text{ 200} = 32 \)

128 mg \( \text{ 2006 of 160} = 32 \)

160 - 32 = 128 mg \( \text{ 3kW} \)
```

```
.9. 2003 Paper 2 Q1
 · 100% + 0.6% = 100.6%
                             1.0.6% of 5000 = 30
                                    5000 + 30 2 5030
                 = 1.006
 · At3pm = (1.006)3 x 5000 V
                               .0.6% of 2030 = 30.18
                                   5030 +30.18 = 5060.18 V
         = 5090.54 /
         = 5090 bacteria V
                                 10.08 of 5060.18 = 30.36
                                    5060·18 + 30·36 = 5090·54 V
                  (3 ag Rgs)
                                  At 3pm = 5090 boctena (3819898)
                                                            (4ku)
10. 2002 Paper 2 102 (calculating the original amount)
   · 100% + 17.5% = 117.5%
     · 117.5% of price = 150
              18 of price = 150 $ 117.5
           1008 of price = 150 = 117.5 × 100

Price without VAT = {127.66 (nearest perry)
                                                             (3ku)
11. 2001
          Paper 2 Q3.
 house: 100% +5% = 105% = 1.05
                                     contents: 100% -8% = 92% = 0.92
                                      value of contests = (0.92)3 x 60000
         1999-2002 = 3ys
```

Total value in
$$2002 = 104186 + 46721$$

$$= \frac{150,907}{(3ku)}$$

=[46721 \(\text{nearest }\frac{\psi}{2}\)

note: This can be done using the 'long' method i.e. work out the % then + or -, as this 3 times.

value of hause = (1.05)3x 90000

= [104186 (nearest E)

```
12. 2000 Paper 2 01
                                   1 -12°6 of 5000 = 600
   · 100% -12% = 88% = 0.88 V
                                      5000-600 = 4400 L
   · 1999 - 2002 2 3yrs.
                                    · 12% of 4400 = 528
                                      4400-528 - 3872
   ono of monleys = (0.88)3 x 5000
                 = 3407.36
                                    ·12% of 3872 = 464.64
                  3410 (neared 10)
                                      3872 - 464.64 = 3407.36
                                                  = 3410 (nearest 10)
                                                           (HKU)
    1999 paper 2 01 (calculate the original amount)
13.
   100% - 122% = 87.5% = 0.875
                                              V for method.
        87.5% of orignal price = 10,500
            1 % of orvignal price = 10,500 = 87.5
          100% of original pre = 10,500 : 87.5 × 100
                   Orignal price = E12,000
                                                           (2ku)
 note: Correct onswer, no working, will get no morks.
   1997 05
        15th may >> 500 - 100 = 400
        End may => 1.025 x 400 = 4.0 V (100% +215% = 102.5%
                                                          =1.025)
```

1997 Q5 15th may => 500-100 = 400 End may => 1.025 × 400 = 4.0 / (100% + 25% = 102.5% = 1.025) 15th July => 4.0 - 100 = 310 5nd July => 1.025 × 310 = 317.75 / 15th July => 317.75 - 100 = 217.75 End July => 1.025 × 217.75 = 223.19 (nearest permy)

The amount outstanding at the beginning of August is $\frac{1}{223.19}$

(3KU)

15. 1996 0.12

note: you can use the 'long' method is. work out 255%, and it on, do thus 4 times in total. Rounding to I decimal place thoughout working will give an answer of 62.2p.

16. 1995 Q8

135 units, further reduction will mean they are still 125 than 135 units.

- 100%-5% 295% 20.95
- Bus station: $(0.95)^3 \times 161 = 138$ | (0.95) $^3 \times 146 = 125$
- => ru the places except wellgate centre uniu

 meet the health regulations. (4RE)

.F. 1994 Q2

$$100\% +5\% = 105\% = 1.05$$
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.18. 1992 Paper 103 (Ku-use a calculator)

Purchase price = 16000. Van will be replaced when value is below \$8000.

First year
$$\Rightarrow$$
 0.7 × 16000 = 11200 \vee 2nd yr \Rightarrow 0.85 × 11200 = 9520 \vee 3rd yr \Rightarrow 0.85 × 9520 = 8092 \vee

The van wur be replaced at the end of the 4th yr as its value will fall below £8000 during the 4th year. (4ku)

19. 1990 Paper 1 02 (ku-use a calculator)

height on 3rd bance = (0.7)3 x 200 ~ \$ 68.6cm ~ = 69 cm (necrest cm) ~ (410)