

# 投資數學習題詳解

褚鳳儀編

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投資數學習題詳解一冊

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編著者 褚鳳儀

發行人 王雲五  
上海河南路

印刷所 商務印書館  
上海河南路

發行所 商務印書館  
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# 投資數學習題詳解

## 習題一

I. 已知  $\log 2 = 0.301030$   
 $\log 3 = 0.477121$   
 $\log 7 = 0.845098$

求下列各數之對數：

A. 42      B. 35      C. 343  
D.  $\sqrt[6]{43218}$       E.  $\sqrt[3]{294}$       F. 625

(解) A.  $\log 42 = \log(2 \times 3 \times 7) = \log 2 + \log 3 + \log 7$   
 $= 0.301030 + 0.477121 + 0.845098$   
 $= 1.623249$

B.  $\log 35 = \log \frac{7 \times 10}{2} = \log 7 + \log 10 - \log 2$   
 $= 0.845098 + 1 - 0.301030 = 1.544068$

C.  $\log 343 = \log 7^3 = 3 \log 7 = 3 \times 0.845098 = 2.535294$

D.  $\log \sqrt[6]{43218} = \log(2 \times 3^2 \times 7^4)^{\frac{1}{6}}$   
 $= \frac{1}{6} (\log 2 + 2 \log 3 + 4 \log 7)$   
 $= \frac{1}{6} (0.301030 + 2 \times 0.477121 + 4 \times 0.845098)$   
 $= \frac{1}{6} (0.301030 + 0.954242 + 3.380392)$   
 $= \frac{1}{6} \times 4.635664 = 0.772611$

E.  $\log \sqrt[3]{294} = \log(2 \times 3 \times 7^2)^{\frac{1}{3}} = \frac{1}{3} (\log 2 + \log 3 + 2 \log 7)$   
 $= \frac{1}{3} (0.301030 + 0.477121 + 2 \times 0.845098)$   
 $= \frac{1}{3} (0.301030 + 0.477121 + 1.690196)$   
 $= \frac{1}{3} \times 2.468347 = 0.822782$

$$\begin{aligned} F. \log 625 &= \log \frac{10000}{16} = \log 10000 - \log 16 = 4 - 4 \log 2 \\ &= 4 - 4 \times 0.301030 = 4 - 1.204120 = 2.795880 \end{aligned}$$

2. 應用公式 (7) 求下列各數之自然對數:

A. 5  
D. 386

B. 7  
E. 344

C. 11  
F. 1332

$$(\text{解}) \log_e(n+1) = \log_e n + 2 \left( \frac{1}{2n+1} + \frac{1}{3(2n+1)^3} + \frac{1}{5(2n+1)^5} + \dots \right)$$

A. 令  $n=4$

$$\begin{aligned} \log_e 5 &= \log_e 4 + 2 \left( \frac{1}{9} + \frac{1}{3 \times 9^3} + \frac{1}{5 \times 9^5} + \dots \right) \\ &= \log_e 4 + 0.22314356 \end{aligned}$$

$$\text{但 } \log_e 4 = 2 \log_e 2 = 1.38629436$$

$$\therefore \log_e 5 = 1.609438$$

$$\begin{array}{r} 0.11111111 \\ 0.00045725 \\ 0.00000339 \\ 0.00000003 \\ \hline 0.11157178 \\ \times 2 \\ \hline 0.22314356 \\ + 1.38629436 \\ \hline 1.60943792 \end{array}$$

B. 令  $n=6$

$$\begin{aligned} \log_e 7 &= \log_e 6 + 2 \left( \frac{1}{13} + \frac{1}{3 \times 13^3} + \frac{1}{5 \times 13^5} + \dots \right) \\ &= \log_e 6 + 0.15415068 \end{aligned}$$

$$\text{但 } \log_e 6 = \log_e 2 + \log_e 3 = 0.69314718 + 1.09861230$$

$$= 1.79175948$$

$$\begin{array}{r} 0.07692308 \\ 0.00015172 \\ 0.00000054 \\ \hline 0.07707534 \\ \times 2 \\ \hline 0.15415068 \\ + 1.79175948 \\ \hline 1.94591016 \end{array}$$

$$\therefore \log_e 7 = 1.945910$$

C. 令  $n=10$

$$\begin{aligned} \log_e 11 &= \log_e 10 + 2\left(\frac{1}{21} + \frac{1}{3 \times 21^3} + \frac{1}{5 \times 21^5} + \dots\right) \\ &= 2.30258512 + 0.09531018 = 2.397895 \\ &\quad 0.04761905 \\ &\quad 0.00003599 \\ &\quad 0.00000005 \\ \hline &\quad 0.04765509 \\ &\quad \times 2 \\ \hline &\quad 0.09531018 \\ &+ 2.30258512 \\ \hline &2.39789530 \end{aligned}$$

D. 令  $n=385$

$$\begin{aligned} \log_e 386 &= \log_e 385 + 2\left(\frac{1}{771} + \frac{1}{3 \times 771^3} + \frac{1}{5 \times 771^5} + \dots\right) \\ &= \log_e 385 + 0.00259404 \\ \text{但 } \log_e 385 &= \log_e (5 \times 7 \times 11) = \log_e 5 + \log_e 7 + \log_e 11 \\ &= 1.60943792 + 1.94591016 + 2.39789530 \\ &= 5.95324338 \\ \therefore \log_e 386 &= 5.955837 \\ &\quad 0.00129702 \\ &\quad \times 2 \\ \hline &\quad 0.00259404 \\ &+ 5.95324338 \\ \hline &5.95583742 \end{aligned}$$

E. 令  $n=343$

$$\begin{aligned} \log_e 344 &= \log_e 343 + 2\left(\frac{1}{687} + \frac{1}{3 \times 687^3} + \frac{1}{5 \times 687^5} + \dots\right) \\ &= \log_e 343 + 0.00291120 \\ \text{但 } \log_e 343 &= \log_e 7^3 = 3 \log_e 7 = 3 \times 1.94591016 \\ &= 5.83773048 \\ \therefore \log_e 344 &= 5.840642 \\ &\quad 0.00145560 \\ &\quad \times 2 \\ \hline &\quad 0.00291120 \\ &+ 5.83773048 \\ \hline &5.84064168 \end{aligned}$$

F. 令  $n = 1331$

$$\log_e 1332 = \log_e 1331 + 2 \left( \frac{1}{2663} + \frac{1}{3 \times 2663^3} + \frac{1}{5 \times 2663^5} + \dots \right)$$

$$= \log_e 1331 + 0.00075104$$

$$\text{但 } \log_e 1331 = \log_e 11^3 = 3 \log_e 11 = 3 \times 2.39789530$$

$$= 7.19368590$$

$$\therefore \log_e 1332 = 7.194437$$

$$0.00037552$$

$$\times 2$$

$$0.00075104$$

$$+ 7.19368590$$

$$7.19443694$$

3. 應用公式(9)與上題所得之結果求下列各數之常用對數:

A. 5

B. 7

C. 11

D. 386

E. 344

F. 1332

(解)  $\log_{10} A = 0.4342945 \log_e A$

$$A. \log_{10} 5 = 0.4342945 \log_e 5 = 0.4342945 \times 1.609438$$

$$= 0.698970$$

$$B. \log_{10} 7 = 0.4342945 \log_e 7 = 0.4342945 \times 1.945910$$

$$= 0.845098$$

$$C. \log_{10} 11 = 0.4342945 \log_e 11 = 0.4342945 \times 2.397895$$

$$= 1.041393$$

$$D. \log_{10} 386 = 0.4342945 \log_e 386 = 0.4342945 \times 5.955837$$

$$= 2.586587$$

$$E. \log_{10} 344 = 0.4342945 \log_e 344 = 0.4342945 \times 5.840642$$

$$= 2.536559$$

$$F. \log_{10} 1332 = 0.4342945 \log_e 1332 = 0.4342945 \times 7.194437$$

$$= 3.124504$$

4. 求下列各數之對數:

A. 43.89

B. 0.003895

C. 0.63453

D. 8693000

E. 0.000738649

F. 0.0342864

(解) A.  $\log 43.89 = 1.642366$

B.  $\log 0.003895 = \overline{3.590507}$

C.  $\log 6.346 = 0.802500$

$\log 6.345 = \underline{0.802432}$

68

查比例部分得 20.4

0.802432

204

0.8024524

$\therefore \log 0.63453 = \overline{1.8024524}$

D.  $\log 8693000 = 6.939170$

E.  $\log 7.387 = 0.868468$

$\log 7.386 = \underline{0.868409}$

59

$0.000059 \times \frac{49}{100} = 0.00002891$

0.868409

0.00002891

0.86843791

$\therefore \log 0.000738649 = \overline{4.86843791}$

F.  $\log 3.429 = 0.535167$

$\log 3.428 = \underline{0.535041}$

126

$0.000126 \times \frac{64}{100} = 0.00008064$

0.535041

0.00008064

0.53512164

$\therefore \log 0.0342864 = \overline{2.53512164}$

5. 求下列各數之反對數：

A. 0.60119

B.  $\overline{3.52022}$

C. 4.59017

D.  $\overline{2.38548}$

E. 1.6493568

F.  $\overline{2.4835402}$

(解) A.  $\log 3.992 = 0.601191$

$\log 3.991 = \underline{0.601082}$

109

$$\begin{array}{r}
 0.601190 \\
 \underline{0.601082} \\
 108 \\
 0.001 \times \frac{108}{109} = 0.000991 \\
 \underline{3.991} \\
 0.000991 \\
 \underline{3.991991} \\
 \therefore \text{Antilog } 0.60119 = 3.991991
 \end{array}$$

$$\begin{array}{r}
 \text{B. } \log 3.313 = 0.520221 \\
 \log 3.312 = \underline{0.520090} \\
 131 \\
 0.520220 \\
 \underline{0.520090} \\
 130 \\
 0.001 \times \frac{130}{131} = 0.000992 \\
 \underline{3.312} \\
 0.000992 \\
 \underline{3.312992} \\
 \therefore \text{Antilog } 3.52022 = 0.003312992
 \end{array}$$

$$\begin{array}{r}
 \text{C. } \log 3.892 = 0.590173 \\
 \log 3.891 = \underline{0.590061} \\
 112 \\
 0.590170 \\
 \underline{0.590061} \\
 109 \\
 0.001 \times \frac{109}{112} = 0.000973 \\
 \underline{3.891} \\
 0.000973 \\
 \underline{3.891973} \\
 \therefore \text{Antilog } 4.59017 = 38919.73
 \end{array}$$

$$\begin{array}{r}
 \text{D. } \log 2.430 = 0.385606 \\
 \log 2.429 = \underline{0.385428} \\
 178 \\
 0.385480 \\
 \underline{0.385428} \\
 52 \\
 0.001 \times \frac{52}{178} = 0.000292
 \end{array}$$

$$\begin{array}{r}
 2.429 \\
 \underline{0.000292} \\
 2.429292 \\
 \therefore \text{Antilog } 2.38548 = 0.02429292
 \end{array}$$

$$\begin{array}{r}
 \text{E. } \log 4.461 = 0.6494320 \\
 \log 4.460 = \underline{0.6493350}
 \end{array}$$

$$\begin{array}{r}
 970 \\
 0.6493568 \\
 \underline{0.6493350} \\
 218
 \end{array}$$

$$0.001 \times \frac{218}{970} = 0.000225$$

$$\begin{array}{r}
 4.460 \\
 \underline{0.000225} \\
 4.460225
 \end{array}$$

$$\therefore \text{Antilog } 1.6493568 = 44.60225$$

$$\text{F. } \log 3.045 = 0.4835870$$

$$\log 3.044 = \underline{0.4834450}$$

$$\begin{array}{r}
 1420 \\
 0.4835402 \\
 \underline{0.4834450}
 \end{array}$$

$$0.001 \times \frac{952}{1420} = 0.000670$$

$$\begin{array}{r}
 3.044 \\
 \underline{0.000670} \\
 3.044670
 \end{array}$$

$$\therefore \text{Antilog } 2.4835402 = 0.0304467$$

6. 應用對數表,求:

$$\text{A. } x = 63.45 \times 0.05496$$

$$\text{B. } x = \frac{385.26}{53.689}$$

$$\text{C. } x = \frac{38.54 \times 8.3945 \times 0.0063984}{1854 \times 0.63954 \times 38.952}$$

$$\text{D. } x = \frac{1.854 \times 0.045938 \times 0.0038652}{3984 \times 4.3652 \times 0.038754}$$

$$\text{E. } x = 1.035^{25}$$

$$\text{F. } x = 1.0375^{30}$$

$$\text{G. } x = \sqrt[8]{3594}$$

$$\text{H. } x = \sqrt[10]{3.65343}$$

$$I. G = \sqrt[6]{58 \times 62 \times 64 \times 67 \times 54 \times 48}$$

$$J. G = \sqrt[7]{325 \times 400 \times 385 \times 329 \times 381 \times 401 \times 375}$$

$$K. X = \frac{1.0375^{30} - 1}{0.0375}$$

$$L. X = \frac{1 - 1.0375^{-30}}{0.0375}$$

(解) A.  $X = 63.45 \times 0.05496$

$$\log X = \log 63.45 + \log 0.05496 = 1.802432 + \bar{2}.740047$$

$$= 0.542479$$

$$X = 3.4872$$

$$B. X = \frac{385.26}{53.689}$$

$$\log X = \log 385.26 - \log 53.689 = 2.5857538 - 1.729885$$

$$= 0.8558688$$

$$X = 7.1758$$

$$C. X = \frac{38.54 \times 8.3945 \times 0.0063984}{1854 \times 0.63954 \times 38.952}$$

$$\log X = (\log 38.54 + \log 8.3945 + \log 0.0063984)$$

$$- (\log 1854 + \log 0.63954 + \log 38.952)$$

$$= (1.585912 + 0.923995 + \bar{3}.8060712)$$

$$- (3.268110 + \bar{1}.8058678 + 1.5905294)$$

$$= 0.3159782 - 4.6645072 = \bar{5}.651471$$

$$X = 0.00004482$$

$$D. X = \frac{1.854 \times 0.045938 \times 0.0038652}{3984 \times 4.3652 \times 0.038754}$$

$$\log X = (\log 1.854 + \log 0.045938 + \log 0.0038652)$$

$$- (\log 3984 + \log 4.3652 + \log 0.038754)$$

$$= (0.268110 + \bar{2}.662172 + \bar{3}.5871716)$$

$$- (1.600319 + 0.640004 + \bar{2}.5883168)$$

$$= 4.5174536 - 0.8286398 = \bar{5}.6888138$$

$$X = 0.000048844$$

$$E. X = 1.035^{25}$$

$$\log X = 25 \log 1.035 = 25 \times 0.014940 = 0.373500$$

$$X = 2.3632$$

$$F. X = 1.0375^{30}$$

$$\log X = 30 \log 1.0375 = 30 \times 0.015988 = 0.47964$$

$$X = 3.0175$$

$$G. X = \sqrt[8]{3.594}$$

$$\log X = \frac{1}{8} \log 3.594 = \frac{1}{8} \times 0.555578 = 0.06944725$$

$$X = 1.1734$$

$$H. X = \sqrt[10]{3.6534}$$

$$\log X = \frac{3}{10} \log 3.6534 = \frac{3}{10} \times 0.5626976 = 0.16880928$$

$$X = 1.4751$$

$$I. G = \sqrt[6]{58 \times 62 \times 64 \times 67 \times 54 \times 48}$$

$$1.763428$$

$$1.792392$$

$$1.806180$$

$$1.826075$$

$$1.732394$$

$$1.681241$$

$$6 \overline{) 10.601710}$$

$$1.766952$$

$$G = 58.47$$

$$J. G = \sqrt[7]{325 \times 400 \times 385 \times 329 \times 381 \times 401 \times 375}$$

$$2.511883$$

$$2.602060$$

$$2.585461$$

$$2.517196$$

$$2.580925$$

$$2.603144$$

$$2.574031$$

$$7 \overline{) 17.974700}$$

$$2.567814$$

$$G = 369.67$$

$$K. X = \frac{1.0375^{30} - 1}{0.0375} = \frac{8 \times 1.0375^{30} - 8}{0.3}$$

$$\text{令 } y = 8 \times 1.0375^{30}$$

$$\log y = \log 8 + 30 \log 1.0375 = 0.903090 + 30 \times 0.015988$$

$$= 0.903090 + 0.47964 = 1.38273$$

$$y = 24.13961$$

$$x = \frac{24.13961 - 8}{0.3} = \frac{16.13961}{0.3} = 53.799$$

$$L. x = \frac{1 - 1.0375^{-30}}{0.0375} = \frac{8 - 8 \times 1.0375^{-30}}{0.3}$$

$$\text{令 } y = 8 \times 1.0375^{-30}$$

$$\log y = \log 8 - 30 \log 1.0375 = 0.903090 - 30 \times 0.015988$$

$$= 0.903090 - 0.47964 = 0.42345$$

$$y = 2.651244$$

$$x = \frac{8 - 2.651244}{0.3} = \frac{5.348756}{0.3} = 17.829$$

7. 解下之指數方程式：

$$356^{x+3} = 512 \times 284^x$$

$$\begin{aligned} \text{(解)} \quad (x+3) \log 356 &= \log 512 + x \log 284 \\ 2.55145(x+3) &= 2.709270 + 2.453318x \\ 2.55145x - 2.453318x &= 2.709270 - 7.65435 \\ 0.098132x &= -4.94508 \\ x &= -\frac{4.94508}{0.098132} = -50.39 \end{aligned}$$

8. 解下之對數方程式：

$$\log \sqrt{3x+4} + \frac{1}{2} \log(5x+1) = 1 + \log 3$$

$$\begin{aligned} \text{(解)} \quad \frac{1}{2} \log(3x+4) + \frac{1}{2} \log(5x+1) &= 1 + \log 3 \\ \log(3x+4) + \log(5x+1) &= 2 + 2 \log 3 \\ \log[(3x+4)(5x+1)] &= 2 + \log 9 \\ \log \frac{(3x+4)(5x+1)}{9} &= 2 \\ \frac{15x^2 + 23x + 4}{9} &= 100 \\ 15x^2 + 23x - 896 &= 0 \\ x &= \frac{-23 \pm \sqrt{529 + 53760}}{30} = \frac{-23 \pm \sqrt{54289}}{30} \\ &= \frac{-23 \pm 233}{30} = \frac{-256}{30} \text{ 或 } 7 \end{aligned}$$

以  $-\frac{256}{30}$  代入原式, 則  $3x+4$  與  $5x+1$  俱為負數, 故為不合理. 以 7 代入原式, 則得:

$$\begin{aligned}\log \sqrt{25} + \frac{1}{2} \log 36 &= \log 5 + \frac{1}{2} \log 6^2 = \log 5 + \log 6 \\ &= \log 30 = \log 10 + \log 3 = 1 + \log 3 \\ \therefore x &= 7\end{aligned}$$

## 習 題 二

填寫下表中空白之處

|   | 本 金    | 年 利 率            | 時 期     | 單 利 息     | 本 利 合 計 |
|---|--------|------------------|---------|-----------|---------|
| 1 | \$ 645 | $4\frac{1}{2}\%$ | 4 年     |           |         |
| 2 |        | 5 %              | 2 年 3 月 | \$ 112.50 |         |
| 3 | \$ 400 |                  | 2 年 6 月 | \$ 60     |         |
| 4 | \$ 550 | $3\frac{1}{2}\%$ |         | \$ 77     |         |
| 5 |        | 8 %              | 3 年 3 月 |           | \$ 2520 |
| 6 | \$ 800 | $2\frac{1}{2}\%$ |         |           | \$ 1200 |

(解)  $I = Pin$   
 $S = P(1 + in)$

1.  $I = 645 \times 0.045 \times 4 = 116.10$  元  
 $S = 645 + 116.10 = 761.10$  元

2.  $P = \frac{I}{in} = \frac{112.50}{0.05 \times 2\frac{1}{4}} = \frac{450}{0.05 \times 9} = 1000$  元  
 $S = 1000 + 112.50 = 1112.50$  元

3.  $i = \frac{I}{Pn} = \frac{60}{400 \times 2.5} = \frac{60}{1000} = 6\%$   
 $S = 400 + 60 = 460$  元

4.  $n = \frac{I}{Pi} = \frac{77}{550 \times 0.035} = \frac{2200}{550} = 4$  年  
 $S = 550 + 77 = 627$  元

5.  $P = \frac{S}{1 + in} = \frac{2520}{1 + 0.08 \times 3\frac{1}{4}} = \frac{2520}{1.26} = 2000$  元  
 $I = 2520 - 2000 = 520$  元

6.  $I = 1200 - 800 = 400$  元  
 $n = \frac{I}{Pi} = \frac{400}{800 \times 0.025} = \frac{1}{0.05} = 20$  年

|   | 本 金     | 年 利 率            | 時 期     | 單 利 息     | 本利合計       |
|---|---------|------------------|---------|-----------|------------|
| 1 | \$ 645  | $4\frac{1}{2}\%$ | 4 年     | \$ 116.10 | \$ 761.10  |
| 2 | \$ 1000 | 5 %              | 2 年 3 月 | \$ 112.50 | \$ 1112.50 |
| 3 | \$ 400  | 6 %              | 2 年 6 月 | \$ 60     | \$ 460     |
| 4 | \$ 550  | $3\frac{1}{2}\%$ | 4 年     | \$ 77     | \$ 627     |
| 5 | \$ 2000 | 8 %              | 3 年 3 月 | \$ 520    | \$ 2520    |
| 6 | \$ 800  | $2\frac{1}{2}\%$ | 20 年    | \$ 400    | \$ 1200    |

求下列各題中之單利息：

|     | 本 金    | 利 率         | 時 期     |
|-----|--------|-------------|---------|
| 7.  | \$ 548 | 年利率 1 分 2 厘 | 5 年     |
| 8.  | \$ 356 | 年利率 8 厘 5 毫 | 3 年 6 月 |
| 9.  | \$ 495 | 月利率 1 分     | 9 月     |
| 10. | \$ 100 | 月利率 8 厘     | 12 月    |
| 11. | \$ 100 | 日利率 3 毫     | 360 日   |
| 12. | \$ 100 | 日利率 3 毫     | 365 日   |

(解)  $I = Pin$

$$7. \quad I = 548 \times 0.12 \times 5 = 328.8 \text{ 元}$$

$$8. \quad I = 356 \times 0.085 \times 3.5 = 105.91 \text{ 元}$$

$$9. \quad I = 495 \times 0.01 \times 9 = 44.55 \text{ 元}$$

$$10. \quad I = 100 \times 0.008 \times 12 = 9.6 \text{ 元}$$

$$11. \quad I = 100 \times 0.0003 \times 360 = 10.8 \text{ 元}$$

$$12. \quad I = 100 \times 0.0003 \times 365 = 10.95 \text{ 元}$$

求下列各題中之時期：

|     | 本 金     | 本利合計    | 年 利 率 |
|-----|---------|---------|-------|
| 13. | \$ 1000 | \$ 2500 | 5 %   |
| 14. | \$ 1000 | \$ 3000 | 6 %   |
| 15. | \$ 1000 | \$ 5000 | 7 %   |

$$(解) \quad n = \frac{r-1}{i}$$

$$13. \quad r = \frac{2500}{1000} = 2.5$$

$$n = \frac{2.5-1}{0.05} = \frac{1.5}{0.05} = 30 \text{ 年}$$

$$14. \quad r = \frac{3000}{1000} = 3$$

$$n = \frac{3-1}{0.06} = \frac{200}{6} = 33\frac{1}{3} \text{ 年}$$

$$15. \quad r = \frac{5000}{1000} = 5$$

$$n = \frac{5-1}{0.07} = \frac{400}{7} = 57\frac{1}{7} \text{ 年}$$

### 習題三

1. 本金3500元,年利率三厘五毫,求民國十九年三月六日至民國二十一年二月四日間之普通利息。

(解)

|       |     |     |
|-------|-----|-----|
| 21年   | 2月  | 4日  |
| 19    | 3   | 6   |
| <hr/> |     |     |
| 1年    | 10月 | 28日 |

$1 \times 360 + 10 \times 30 + 28 = 688$  日

先求年利率三厘之利息

|                 |                 |
|-----------------|-----------------|
| 600日            | \$175           |
| 60              | 17.5            |
| 24              | 7.0             |
| 4               | <hr/> 1.1667    |
|                 | 200.6667        |
|                 | <hr/> 33.4445   |
| $+ \frac{1}{6}$ | <hr/> 234.1112元 |

2. 本金27500元,年利率五厘,應用本金整除法,求72日之普通利息。

(解)  $20000 \times 0.05 \times \frac{72}{360} = 200$  元

|              |            |
|--------------|------------|
| 本金20000元     | 利息200      |
| 5000         | 50         |
| 2500         | 25         |
| <hr/> 27500元 | <hr/> 275元 |

3. 應用定除數法,求下表之普通利息之總和(年利率四厘):

| 本金     | 日數  |
|--------|-----|
| 1350元  | 35  |
| 4855   | 45  |
| 6945   | 128 |
| 7856   | 64  |
| 9450   | 32  |
| 345.50 | 16  |
| 287.75 | 44  |
| 5895   | 4   |
| 1005   | 32  |
| 2586   | 5   |