A54 B159(154) C52217(3.1) D67

問 傛 九 出 辛 八 戊 七 四 甲 庚 今 孫
家 運 家 三 出 十 出 斛 十 出 辛 有 子
各 直 共 百 二 斛 七 丁 六 三 壬 甲 算
幾 折 輸 二 百 庚 十 出 斛 十 九 乙 經
何 二 租 十 一 出 九 六 丙 五 家 丙 ·
? 百 一 五 十 二 斛 十 出 斛 共 丁 卷
　 斛 千 斛 斛 百 己 八 五 乙 輸 戊 下
　 外 斛 凡 壬 斛 出 斛 十 出 租 己

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Now there be nine families, A, B, C, D, E, F, G, H and I, contributing tax together. A payeth thirty-five 斛; B payeth forty-six 斛; C payeth fifty-seven 斛; D payeth sixty-eight 斛; E payeth seventy-nine 斛; F payeth eighty 斛; G payeth one hundred 斛; H payeth two hundred and ten 斛; I payeth three hundred and twenty-five 斛. In total, the nine families together contribute tax one thousand 斛.

For transport hire, the value is reduced two hundred 斛 without. We ask: how much payeth now each family?

傛: 貨也; hire
傛: 音訊
直: 通值

C err. has 輸 for both 輸.
A err. missing 六 in 四十六斛.

Answer saith:
- A: twenty-eight 斛;
- B: thirty-six 斛 eight 斗;
- C: forty-five 斛 six 斗;
- D: fifty-four 斛 ~~斗~~ four 斗;
- E: sixty-three 斛 two 斗;
- F: sixty-four 斛;
- G: eighty 斛 ; H: one hundred _and_ sixty-eight 斛;
- I: two hundred _and_ sixty 斛.

C has ~~斛~~ for all 斗. A err. missing 六斗 for 丙四十五斛[六斗].

答曰:
壬	辛	庚	己	戊	丁	丙	乙	甲
二百	一百	八十	六十	六十	五十	四十	三十	二十
六十斛,	六十八斛,	斛.	四斛,	三斛二斗,	四斛,	五斛六斗,	六斛八斗,	八斛,

Method saith: put _down_ A's ~~pay~~ payment, thirty-five 斛. Multiplying it by four, resulteth in one hundred _and_ forty 斛. Dividing it by five, resulteth in twenty-eight 斛. B's payment, forty-six 斛, multiplying it by four, resulteth in one hundred _and_ eighty four 斛. Dividing it by five, resulteth in thirty-six 斛 eight 斗.

C's payment, fifty seven 斛, multiplying it by four, resulteth in two hundred _and_ twenty-eight 斛. Dividing it by five, resulteth in forty-five 斛 six 斗.

術曰:
置甲三十五斛。以四乘之,得一百四十斛。以五除之,得二十八斛。

乙四十六斛,以四乘之,得一百八十四斛。以五除之,得三十六斛八斗。

丙五十七斛,以四乘之,得二百二十八斛。以五除之,得四十五斛六斗。

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D's payment, sixty-eight 斛, multiplying it by four, resulteth in two hundred and seventy-two 斛. Dividing it by five, resulteth in fifty-four 斛 four 斗. E's payment, seventy-nine 斛, multiplying it by four, resulteth in three hundred and sixteen 斛. Dividing it by five, resulteth in sixty-three 斛 two 斗. F's payment, eighty 斛, multiplying it by four, resulteth in three hundred and twenty 斛. Dividing it by five, resulteth in sixty-four 斛.

C em ho 斗 for both 斗.

G's payment, one hundred 斛, multiplying it by four, resulteth in four hundred 斛. Dividing it by five, resulteth in eighty 斛. H's payment, two hundred and ten 斛, multiplying it by four, resulteth in eight hundred and forty 斛. Dividing it by five, resulteth in one hundred and sixty-eight 斛. I's payment, three hundred and twenty-five 斛, multiplying it by four, resulteth in one thousand three hundred 斛. Dividing it by five, resulteth in two hundred and sixty 斛.

$$\frac{800}{1000} = \frac{4}{5}$$

丁出六十八斛，以四乘之，得二百七十二斛。以五除之，得五十四斛四斗。戊出七十九斛，以四乘之，得三百一十六斛。以五除之，得六十三斛二斗。己出八十斛，以四乘之，得三百二十斛。以五除之，得六十四斛。

庚出一百斛，以四乘之，得四百斛。以五除之，得八十斛。辛出二百一十斛，以四乘之，得八百四十斛。以五除之，得一百六十八斛。壬出三百二十五斛，以四乘之，得一千三百斛。以五除之，得二百六十斛。

END 卷一