

A66 B161(156) C52262(3.6) D79

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Now there be grain, one hundred and twenty-eight thousand, nine hundred and forty 斛, nine 斗 and three 合, given unto a person, to buy strong silk; and one 匹 three 兩 half value in grain three 斛, five 斗 and seven 升. We ask: how much strong silk be there?

Answer saith: thirty-six thousand, one hundred and seventeen 匹, three 丈 and six 尺.

Method saith: put down the grain, one hundred and twenty-eight thousand, nine hundred and forty 斛, nine 斗 and three 合 as the dividend, and use the three 斛, five 斗 and seven 升 as the divisor.

Dividing them, resulteth in the number of 匹. If the remainder, quadruple it; if that obtained, also divide it by the divisor, and we are done.

128940.903

$$\begin{aligned}
 & \frac{128940.903}{3.57 \text{ 斛/匹}} \\
 & = 36117 \text{ 匹} + \frac{3.213}{3.57} \times \frac{40 \text{ 兩}}{1 \text{ 匹}} \\
 & = 36117 \text{ 匹} + 36 \text{ 兩}
 \end{aligned}$$

~~15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 105, 110, 115, 120, 125, 130, 135, 140, 145, 150, 155, 160, 165, 170, 175, 180, 185, 190, 195, 200, 205, 210, 215, 220, 225, 230, 235, 240, 245, 250, 255, 260, 265, 270, 275, 280, 285, 290, 295, 300, 305, 310, 315, 320, 325, 330, 335, 340, 345, 350, 355, 360, 365, 370, 375, 380, 385, 390, 395, 400, 405, 410, 415, 420, 425, 430, 435, 440, 445, 450, 455, 460, 465, 470, 475, 480, 485, 490, 495, 500, 505, 510, 515, 520, 525, 530, 535, 540, 545, 550, 555, 560, 565, 570, 575, 580, 585, 590, 595, 600, 605, 610, 615, 620, 625, 630, 635, 640, 645, 650, 655, 660, 665, 670, 675, 680, 685, 690, 695, 700, 705, 710, 715, 720, 725, 730, 735, 740, 745, 750, 755, 760, 765, 770, 775, 780, 785, 790, 795, 800, 805, 810, 815, 820, 825, 830, 835, 840, 845, 850, 855, 860, 865, 870, 875, 880, 885, 890, 895, 900, 905, 910, 915, 920, 925, 930, 935, 940, 945, 950, 955, 960, 965, 970, 975, 980, 985, 990, 995, 1000~~

斗 人 百 今
七 買 四 有
升。 絹, 十 粟
間 一 斛 一
絹 匹 九 十
幾 直 斗 二
何? 粟 三 萬
三 合, 八 千
斛 出 九
五 與 九

又 除 實, 九 術 七 答
以 之, 以 百 曰: 匹 曰:
法 得 三 四 置 三
除 匹 斛 十 粟 丈 萬
之 餘 五 斛 一 六 六
即 四 斗 九 十 尺 千
得 十 七 斗 二 一
之, 升 三 萬 百
所 為 合 八 十
得 法。 為 千 十

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