

A30 B154(149) C52148(2-7) D43

V61. II 917

C err. has 粟 for 粟 in
both instances.

今答術率四十二之

Now we have regular grain,
four 斗 five 升. We ask:

而十十二日有

how much be this in intricate
grain?

命五升十置二粟

Answer saith: two 斗 one 升 and
three fifths of a 升.

分為四粟斗四

Method saith: put down the regular
grain, forty five 升. Reducing
the intricate grain rate, twenty-four,
by two, resulteth in twelve;
multiplying them resulteth in five
hundred and forty 升 as the
dividend. Reducing the regular
grain rate, fifty, by two,
resulteth in twenty-five as the
divisor. Divide them; for the
remainder, reduce it by the
equal quantity, and name the
fraction.

法實得四一斗

除以一十升五

之二十五五升

不約二升分問

盡粟乘以升為

以率之之粟

等五得約三米

數十五粟幾

約得百米何

Rate ratio has been reduced by common factor $\gcd(24, 50) = 2$.
The remainder of division is $15/25$, which, upon reduction
by the "equal quantity" $\gcd(15, 25) = 5$, becomes $3/5$.
See 等數 in 911.

$$V(\text{粟米}) = \frac{24 \div 2}{50 \div 2} \cdot 45 \text{ 升} = 21 \frac{3}{5} \text{ 升}$$

END 917