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Now there be three people sharing ~~a~~ a chariot,  
and two chariots go empty; but two people sharing  
a chariot, and nine people go on foot.  
We ask: how much be each of people and chariots?

Answer saith: fifteen chariots; thirty-nine people.

For  $p$  people and  $c$  chariots:

$$\begin{cases} p = 3(c-2) & c = 3 \times 2 + 9 = 15 \\ p = 2c + 9 & p = 2 \times 15 + 9 = 39. \end{cases}$$

$$0 = c - 3 \times 2 - 9$$

Method saith: put down the two chariots: multiplying  
it by three, resulteth in six.

置二車: A, B & D em. have 置一人.

But if you look at the  $3 \times 2$  term in  $c = 3 \times 2 + 9$ ,  
the 2 arises from the 2 empty chariots, not the  
2 people per chariot. If one uses dimensional  $p$  and  
 $c$ , we have

$$p = \frac{3}{\text{車}}(c - 2\text{車})$$

$$p = \frac{2}{\text{車}}(c) + 9\text{人}$$

and such a mistake may be avoided.

Adding ~~the~~ those on foot, nine people, resulteth in ~~the number of~~  
chariots, fifteen. These wishing to know the number of people:  
~~the number of~~ <sup>multiply</sup> the number of chariots by two, and adding the  
nine people, we are done.

D em. has 加九十 for 加九人.

答各人今有三人共車二車空, 二  
曰: 幾人步。聞人與車二  
一何車, 九人步。聞人與車二  
十五車; 二十九人。  
人。

九五六術  
人欲加曰  
即知步置  
得。人者二  
者。九車,  
以人, 以  
二得三  
乘車乘  
之, 加十得

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