Equations to solve in your head:

$$6{,}751x + 3{,}249y = 26{,}751$$
$$3{,}249x + 6{,}751y = 23{,}249$$

Is this a joke? Not if you can multiply the first equation by 6,751 and the second by 3,249 in your head, and not if you use a second, simpler method.

Solution: x=3 and y=2.

Adding and subtracting the equations we see that the numbers become 10,000m 10,000, and 50,000; and 3,502, -3.502, and 3,502. Dividing by 10,000, and by 3,502, we obtain:

$x + y = 5$ and $x - y = 1$. Anyone can solve such simple equations in his head.