A shop sold shirts at $14 each in January. In February, the shirts were sold at $11 each. The number of shirts sold in January to those sold in February is 2:3. Total sales were $1342. How many shirts were sold in January?

Solution:

We have sales of shirts in January in the amount of 2 units at a price of $ 14, and sales in February, the number of 3 units for $ 11, with the revenue of $1342.

Thus, we can set up the equation $28x + 33\,x = 1342$, where we find the value of the unknown $61x = 1342 => x = 22$.

As we know the ratio of sales in January to February is 2:3, so in January, the shop sold 44 shirts for $616.