

## EXCHANGE RATE QUOTATION LIST

1. JPY – Japanese yen, USD – American dollar, EUR – Euro, HUF – Hungarian forint.  
It is important to explain these abbreviations before you start to work-out the problems. As well, it is recommended to check the pupils' understanding of the term *to round (a number) to 0,50 Sk* in two or three extra exercises.
2. The numbers express the amount of money in Slovak currency (Slovak crowns) for which the bank buys (purchase) or sells (sale) the amount of money stated in the second column in the particular currency.
3.  $200 \cdot 36,39 = 7\,278$  Sk (from the bank's point of view it is a purchase, therefore the bank doesn't charge any fee).
4.  $30 \cdot 27$  Sk + 50 Sk fee  $\cong 80,50$  Sk (after rounding it to 0.50Sk)
5. It is a sale (from the bank's view) therefore they charge the fee. 30 Sk is 1% from 3 000Sk, it is less than 50 Sk. The fee is then 50 Sk and the rest is 2 950 Sk to be changed for yen.

$$2\,950 : 25 = 118 \quad 118 \cdot 100 = 11\,800.$$

Marta has got **11 800 yen**.

6. As it is about the exchange rate – a sale, the bank charges a fee. 90 Sk is 1% from 9 000 Sk, it is more than 50 Sk. Therefore the fee is 90 Sk, the rest is 8 910 Sk to be changed.

$$8\,910 : 38,33 = 232,4545 \cong 232 \text{ (after rounding it down)}.$$

Marta could get **232 eur**, it would cost her

$$\begin{aligned} 232 \cdot 38,33 + 1\% \text{ fee} &= 8\,892,56 \text{ Sk} + 88,9256 = 8\,981,4856 \cong \\ &\cong 8\,981,50 \text{ (after rounding it to 0.50 Sk)}. \end{aligned}$$

The change she would get was **18,50 Sk**.

7. The amount of money we got could have come out from rounding the amount from 18 606.75 Sk to 18 607.24 Sk (rounded to 0.50Sk). For the marginal values of this interval we get:
  - $18\,607,24 : 13,14 \times 100 = 141\,607,6$
  - $18\,606,75 : 13,14 \times 100 = 141\,603,8$

It means that mathematically stated there are four solutions: **141 604, 141 605, 141 606 a 141 607 forints**. With your pupils you can further discuss the reality of the amount given in the exercise and gained results (it might depend on whether the bank purchases or does not purchase small coins).