

DON'T BE STINGY!

How to calculate tips to be left

In some countries it is good consumption to leave a tip at the end of the service proportional to total expense. Sometimes, for example in America, the amount of the tip is well known or directly indicated, usually expressed in percentage. Other times the amount it is just suggested, as a good standard, like in some countries of Europe. In this situation the focus will be on the calculation of percentage and on the perception and prevision of the right amount, just to train the learners on approximation of this simple calculation. **Overview "DON'T BE STINGY"** Calculate tips to be left while traveling **Cognitive processes** Context Travel Managing situation **Processing information** Target group (incl. necessary prior skills and competences) Young Adults X2 Content **Dispositions** Moltiplication **Outcomes and results** Self confidence Natural numbers Flexibility perception and prevision of the right **Decimal numbers** amount to be left proportional to the expense, practicing approximation on simple calculation





| Main information | | | |
|--|---|--|--|
| Content | Natural numbers Decimal numbers Multiplication and division | | |
| Target group | Young adults Learners: cope with one-step, simple operations such as counting, performing basic arithmetic operations to cope with everyday situations; Self-confident in getting involved with small group activities that require intuition and simple mental calculations for approximation | | |
| Learning intention | Numeracy for personal and private purposes | | |
| Duration | 2UE + | | |
| Material and resources | Cards developed by the teacher | | |
| Group size | Small group work: 2 learners | | |
| Problem statement | Traveling abroad can lead you to visit places where it is good practice, if not mandatory, to leave a tip at the end of a service. This practice can be seen as an indication of appreciation of the service received, but often, in some countries, it could even represent the main source of income of the staff who served you. Whether it is a bar, a restaurant or an accommodation facility, a tip is requested when paying the bill, usually expressed as a percentage. Having a good familiarity with this mathematical topic can help you to quickly derive the amount of the tip or, in cases where it is presented already calculated, to assess whether it has been indicated correctly. It often happens that people take advantage of tourists, right is not to be stingy, but with the knowledge that you are not getting cheated! | | |
| Learning outcomes and results | Learners are able to do percentage, know after targeted exercise approximate the figure for the percentage | | |
| Reference to National Qualification Frame | Optional (country's decision) | | |





| | Working | plan | |
|-------------------|---|--|--|
| Time (lessons) | Description of content/activities | Material | Methodical and didactic information ¹ |
| 30' | 1.Discover The teacher develops and introduces material showing the most frequently used percentage values for tips. After this presentation, a little time to discussion could take place; the learners are young adults who are approaching at working world and it could be interesting hearing their opinion about a system that is different from the European one, or to get what they think about tips, etc | Presentation or similar developed by the teacher | Explicit teaching Questioning Feedback |
| 45' | 2. Calculate the percentage Using the most commonly used percentages values seen in step 1, the teacher checks if learners know how to calculate percentages through a collaborative learning activity in which they are given percentages to derive. | Exercises (see appendix 1) | Collaborative learning Feedback |

Working plan

¹ for description and explanation of kinds of tasks, HITs and other background information please consult the teachers' guide





| 45' + | 3.Checking the check Learners do an activity of checking on some fake receipts in which the tip to be left by the customer is already indicated as calculated. The learners should get if the number shown is coherent and probable. This activity should be done without calculator, just getting the result with an approximation. For this reason the tips in the receipts prepared by the teacher hasn't to be very close to the actual numbers. | Fake receipts (see appendix 2) | Hands on learning Metacognitive strategies |
|-------|--|-----------------------------------|--|
| 60' | <text><text><text></text></text></text> | | Metacognitive strategies Hands on learning Collaborative learning Feedback |





Appendix 1

2.CALCULATE THE PERCENTAGE

Exercise examples:

- Hai speso 47,50 \$ e scegli di lasciare una mancia del 15% perché hai gradito particolarmente il servizio. Quanti dollari lasci?
- Spendi 65,80 \$ e devi lasciare una mancia del 10% ma hai solo 4\$ in contanti nel portafoglio, ti bastano?
- Sulla ricevuta viene riportato un totale pari a 215 \$. Quanti dollari di mancia lasci se vuoi lasciare il minimo?

Appendix 2

3.CHECKING THE CHECKS

Faking checks example:

| Alfred | | |
|----------------------|--|--|
| 1 fettuccine\$ 15 | | |
| 2 spaghetti\$ 36 | | |
| 4 bruschette\$ 32 | | |
| 1/2I white wine\$ 22 | | |
| 2 coffee\$ 6 | | |
| 1 apple pie\$ 8 | | |
| + 10%tip | | |
| TOTAL\$ 135 | | |
| | | |



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