PHP Exercises - Block 1

Initialize the values of the variables that are needed with a bounded random value taking into account the statement.

1. **Community**
   Given the number of floors and doors, make a list of the houses in the community.

2. **Senior**
   From three numbers, show the biggest of them.

3. **Age range**
   Given an age, it shows the range of values between which it is found, from 0 to 100.
   Example:
   If the given age is 26 it should show:
   "He is between 20 and 30 years old"

4. **Palindrome**
   Given a word, indicate whether it is a palindrome. A palindrome is a word or phrase that reads the same from left to right as it does from right to left.

5. **Park**
   We want to control the entrance to a park attraction. Those over 10 years old or those measuring more than 120 cm can climb. If the minor is 'accompanied', they are allowed to ride the attraction if they are over 6 years old, regardless of height.

6. **Powers**
   Given a power and a quantity, display the numbers, their power, as long as the power is less than the quantity.
   Power: 3
   Quantity: 100
   It should show us:
   1-1
   2-8
   3-27
   4-64

7. **Positive integer**
   Implement the following operation, applicable to any positive integer:
   a. ● If the number is even, it is divided by 2.
   b. ● If the number is odd, multiply it by 3 and add 1.
   In the end we always get one.
   Example: 13, 40, 20, 10, 5, 16, 8, 4, 2, 1

8. **Pyramid**
Implement the code that, given a 'base' variable that has to be odd, prints the following figure:
```
   *
  * * *
 * * * * *
* * * * * *
```

9. **Commission**
We want to calculate a seller's commission. The commission is the amount of sales plus a percentage that is based on the amount of sales. If you have sold less than €10,000 it is 5%, between 10,000 and 20,000 8%, between 20,000 and 40,000 10% and more than 40,000 13%.

10. **Online store**
We have the following data:
- The amount of the shopping basket $total_compra, number with two decimals.
- The variable $tipo_compra can contain 'pets' or 'clothes'.

Write the necessary code to implement:
If the customer's purchase is less than 19 euros:
- if the products are from pets, a message will be displayed:
- "Unable to send."
- If the products are clothes, the following message will be displayed: "Shipping costs are 9 euros".

If the purchase has an amount between 19 and 40 euros, the message will be indicated: "The shipping costs are 9 euros".

If the purchase exceeds 80 euros, we must indicate a message that the shipping costs are free.

Show the final price of the purchase, taking into account that 10% VAT must be added if it is about pets and 21% if it is about clothes.