ANNEX A · FINDING INFORMATION

Name: _____ **Date:** _____

Work in **deb-lab**. First build the shared folder of Tramuntana Apps and go inside. **Stay there** for the whole class.

```
bash ~/Downloads/tramuntana-share.sh
cd ~/tramuntana-share
```

DONE WHEN The script prints `Ready: 32 files and 14 directories` and `ls` shows `admin  design  dev  tmp`.

PART A · DRILLS (AFTER EACH EXPLANATION)

Wildcards. `*` any characters · `?` exactly one · `[1-3]` one of these.

1. `ls design/logos/*.png` → how many files? _____
2. `ls design/logos/logo-v?.png` → how many? _____
3. `ls admin/invoices/2026/invoice-2026-00[1-3].txt` → how many? _____
4. Write a command that lists **all** the invoices of both years at once: _____

find reads the labels: `find  WHERE  TEST`. Always put the pattern in quotes.

5. `find . -name "*.py"` → how many? _____
6. `find . -name "*.jpg"` → _____ `find . -iname "*.jpg"` → _____ Why are they different?
   _____
7. `find . -size +1M` → which files? _____
8. `find . -type f -mtime +365` → which file? _____
9. `find / -name "os-release"` → what fills the screen? _____ Now add `2>/dev/null` at the end.
   DONE WHEN Only two or three lines are left, and one of them is `/etc/os-release`.

grep opens the jars: `grep  TEXT  FILE`.

10. `grep -c ERROR dev/bus-app/logs/server.log` → _____ With `-n` instead of `-c`: on which lines?
    _____
11. `grep -r TODO .` → _____ lines. `grep -ri todo .` → _____ lines.
12. Which invoice is not paid? `grep -r UNPAID .` → _____
13. `grep pau admin/staff.csv` → _____

The pipe `|` sends the output of the left command into the right one. `wc -l` counts lines.

14. `find . -type f | wc -l` → _____ 15. `ls /usr/bin | wc -l` → _____

locate and the graphical search.

16. `sudo apt install plocate`, then `sudo updatedb`, then `locate invoice-2026-005` → found? _____
17. `touch ~/brand-new-file.txt`, then `locate brand-new-file` → found? _____ Why?
    _____
18. In the app **Files**: open `tramuntana-share`, press the magnifier, type `logo`. How many results? _____

PART B · PRACTICAL 4.2 · THE HELP DESK OF TRAMUNTANA APPS

Eight tickets arrived this morning. Answer each one with **one command** (a pipe counts as one) run from `~/tramuntana-share`. Write the command and the answer.

No.	Ticket	Command	Answer
1	**Marta (dev):** "I need the list of all the Python files (`.py`) in the share."		
2	**Joan (design):** "Find all the photos (`.jpg`). Some have the extension in capitals."		
3	**Aina (admin):** "One invoice says UNPAID. Which one?"		
4	**Aina:** "How many invoices are for the client Hotel Ponent? Only the number."		
5	**Pau (dev):** "The disk is almost full. Which files are bigger than 1 MB?"		
6	**Marta:** "How many errors are in the server log of the bus app, and on which lines?"		
7	**Security:** "Somebody wrote a password in a file. Which file? And there is one hidden file: where?" (two commands allowed)		
8	**Joan:** "Which files has nobody changed for more than a year?"		

Ticket 7, one sentence: why is a password in a text file of a shared folder a problem?

Hand in on Classroom before the next class: `practical-4.2-surname.md` with the eight commands in code blocks, the answers and the sentence. **Marking:** tickets 8 · sentence 1 · report 1.

PART C · EXIT TICKET (ALONE, NO TERMINAL)

1. Which command searches for text **inside** files?

A `ls` **B** `find` **C** `grep` **D** `locate`

2. `ls *.txt` lists…

A the names that end in `.txt` in this directory
B every text file on the disk
C the file called `*.txt`
D the files that contain the word txt

3. In `find . -iname "*.jpg"`, what does the `i` change?

A it searches inside the files
B it searches in hidden directories too
C it searches only images
D it ignores capital and small letters

4. `ls /usr/bin | wc -l` …

A lists `/usr/bin` and then a file called `wc`
B counts how many names `ls` printed
C writes the list into a file
D deletes the long names

5. `locate` does not find a file you created one minute ago, because…

A its list of paths is older than the file
B it only searches your home
C it cannot see `.txt` files
D new files are hidden for an hour