Choose a name (or a number) for your team:

| Participants' Name | cm | Height inches | varas* |
| :---: | :---: | :---: | :---: |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

(*) you must write it in cm, inches and "varas jaquesas" at the stop of the Cathedral. 1 inch= 25.4 mm

Date: $\qquad$
Temperature: $\qquad$


IES Pirineos June 2015

## What is maths used for in everyday life?

You may wonder what connects the maths you do at school to the real world....


Find the following details in façades or other places in Jaca:
a) What polyhedron is the base of this fountain?


b) Where is this plaque? What is the elevation of Jaca?
c) What solid does this bell look like? Where is it?

e) Spot where these pictures have been taken. Write the name of the street where they are and write all the different shapes you can figure out in both of them.
a')Calculate the area of the base in picture a
$b^{\prime}$ )Calculate the elevation in ft and in cm .
c') measure the perimeter of the bell, in contact with the floor. What is the measure of the diameter?



## Look at this picture.

What is the scale of this picture? (you have to compare to the reality)

## Solve this problem:

## A metalsmith makes varas of silver to sell as decoration

He needs 3 hours with his old machine to make one piece. How many pieces can he do in one day if he works 9 hours per day?
He buys a machine to make the same piece in 2 hours, and his nephew helps him to work at the same time. How many pieces can they do in one work day?

Now it's the moment to measure all the components of the team and fill in the grid in the first page.


Draw a design for a campaign to make people aware that it's an advantage to do it.

