

## EVALUATION FILE

Pupil: .....

I)

1. Draw, as best you can, as when you try to explain to someone who does not know anything about this, the map that you follow going from home to school

2. Assuming the sphere is a geographic globe with radius  $r$ , knowing that the average radius of the Earth is  $R$  ( $\sim 6371$  km) calculate by direct proportions the real distance (on the Earth surface) between the two geographical objects and the center angle  $\alpha$ .

Note that this operation is equivalent with the finding of the scale factor for our ball as a model of the Earth.

II)

Choose one of the answers to the questions below (**Kahoot**).

1. Convert  $45,5^\circ$  Decimal Degrees in Grades-Minutes-Seconds

- a.  $45^\circ 30' 0''$
- b.  $45^\circ 25' 30''$
- c.  $45^\circ 50' 0''$

2. What is the scale at which we represent distances on a ball with a radius of 100 cm, if we know the radius of the Earth is 6371 km?

- a. 1:637.100
- b. 1:63.710.000
- c. **1:6.371.000**