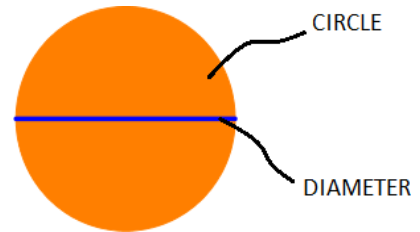# RELATION BETWEEN
A CIRCLE AND ITS DIAMETER

TASK 1.

Consider the perimeter of a circle and its diameter. What kind of proportionality do you think there is between them? Why?

_____

_____

_____

TASK 2.

Open the simulation you teacher has shared with you and explore it. According to the simulation, were your hypotheses right?

_____

_____

_____

TASK 3.

Design a real experiment to verify what kind of proportionality connects the perimeter of a circle and its diameter and to find their proportionality constant.

We could consider many round objects with different _____ .

We could use the _____ to measure their _____ , and then

we could use the _____ to measure their _____ .

Then we could calculate the _____ between _____ and _____ .

Finally we could draw a graph with _____ in abscissa and _____ in

ordinate, in order to find the proportionality constant from there.