

SOIL is a RESOURCE

Three Teaching Methods to Achieve One Target

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Traditional lesson



- Drawing
- Use of Ppt
- Individual activities

Traditional Lesson, Cooperative Laboratory and Role Playing-Game are used to show the same topic simultaneously in parallel classes

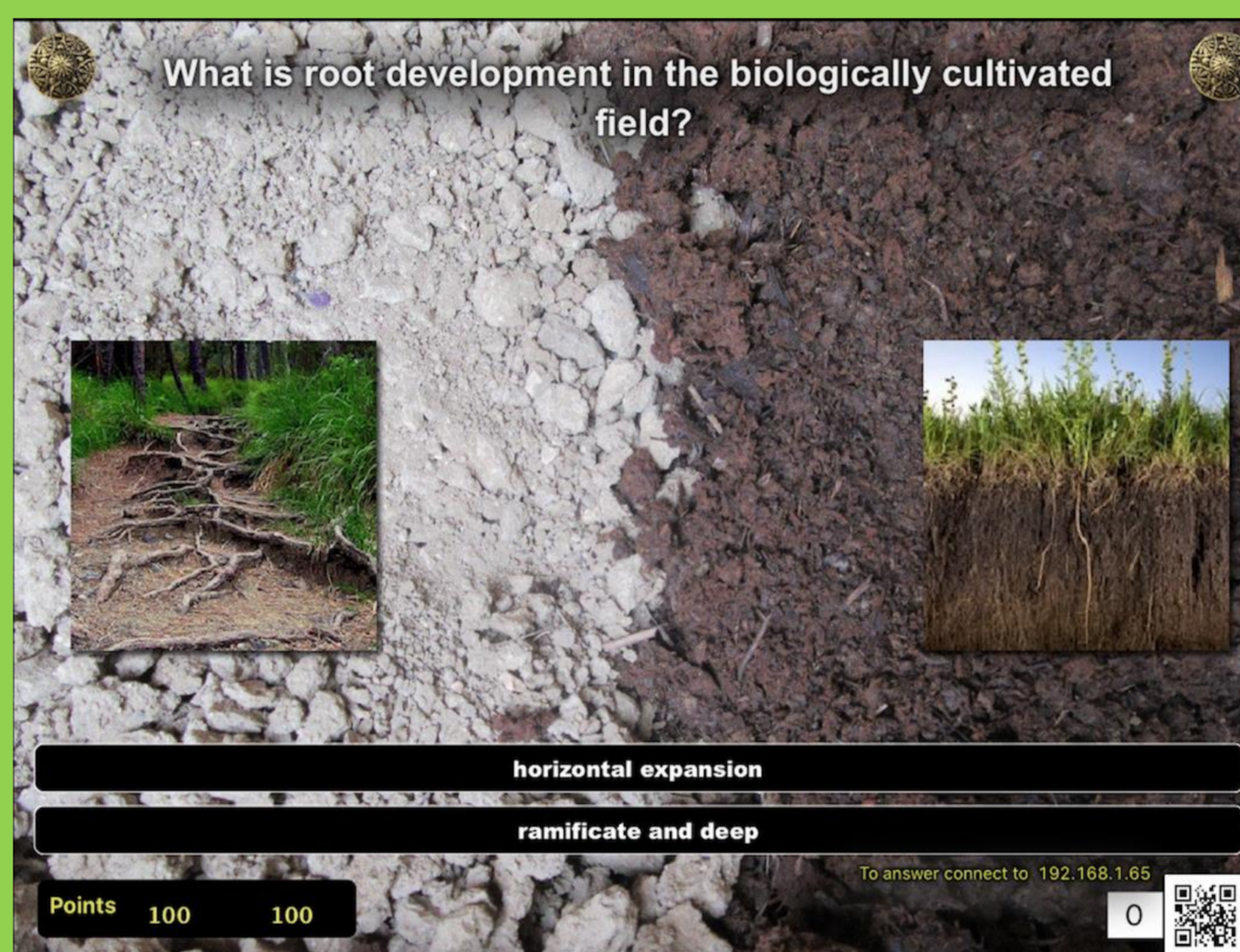
The aim of this work is to figure out among three teaching methods which one lets pupils understand the most how important soil is

Six classes (9-10 years old pupils) were involved in the trial
 All three approaches were carried on in two hours

From our previous experience as teachers we realized that soil is a resource usually taken for granted by students but it is actually limited and always in danger

Studying soil allows many interdisciplinary connections

Role playing-game



- Pupil's engage
- More focus on game than on content

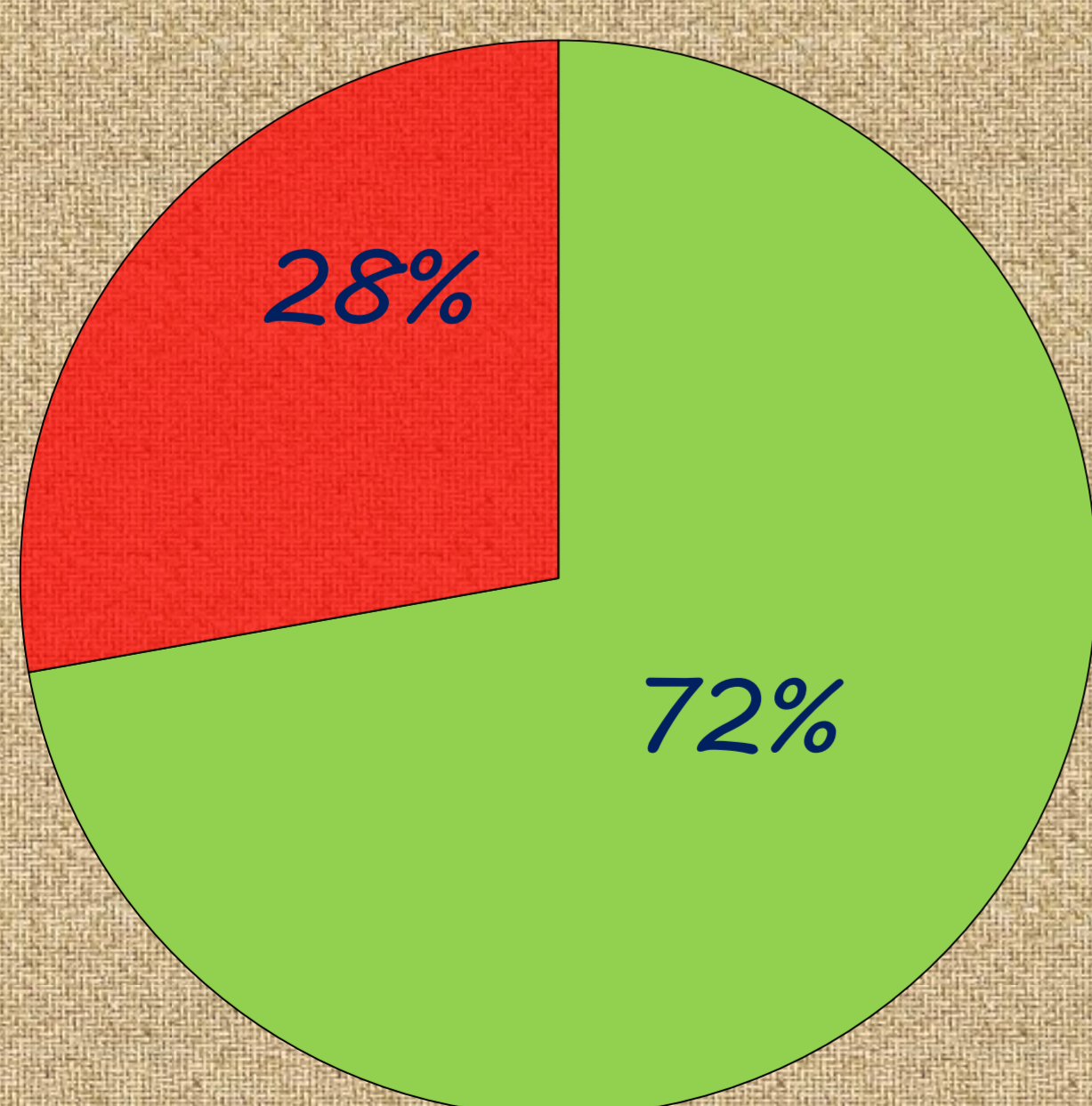
Cooperative laboratory



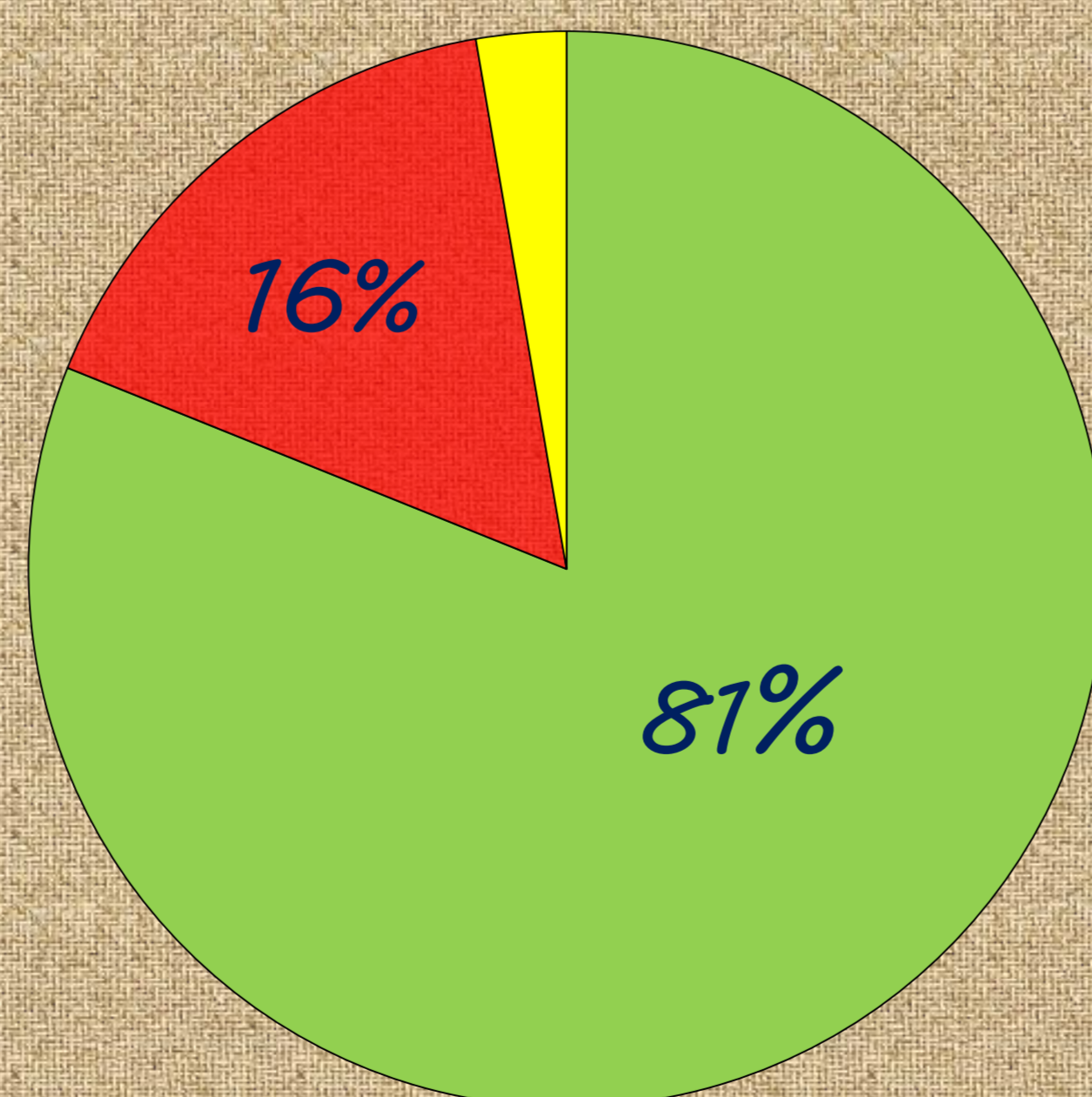
- Cooperative learning
- Hands-on experiences
- Organization difficulties in the groups

PRELIMINARY RESULTS for the question: is Soil a Renewable Resource?

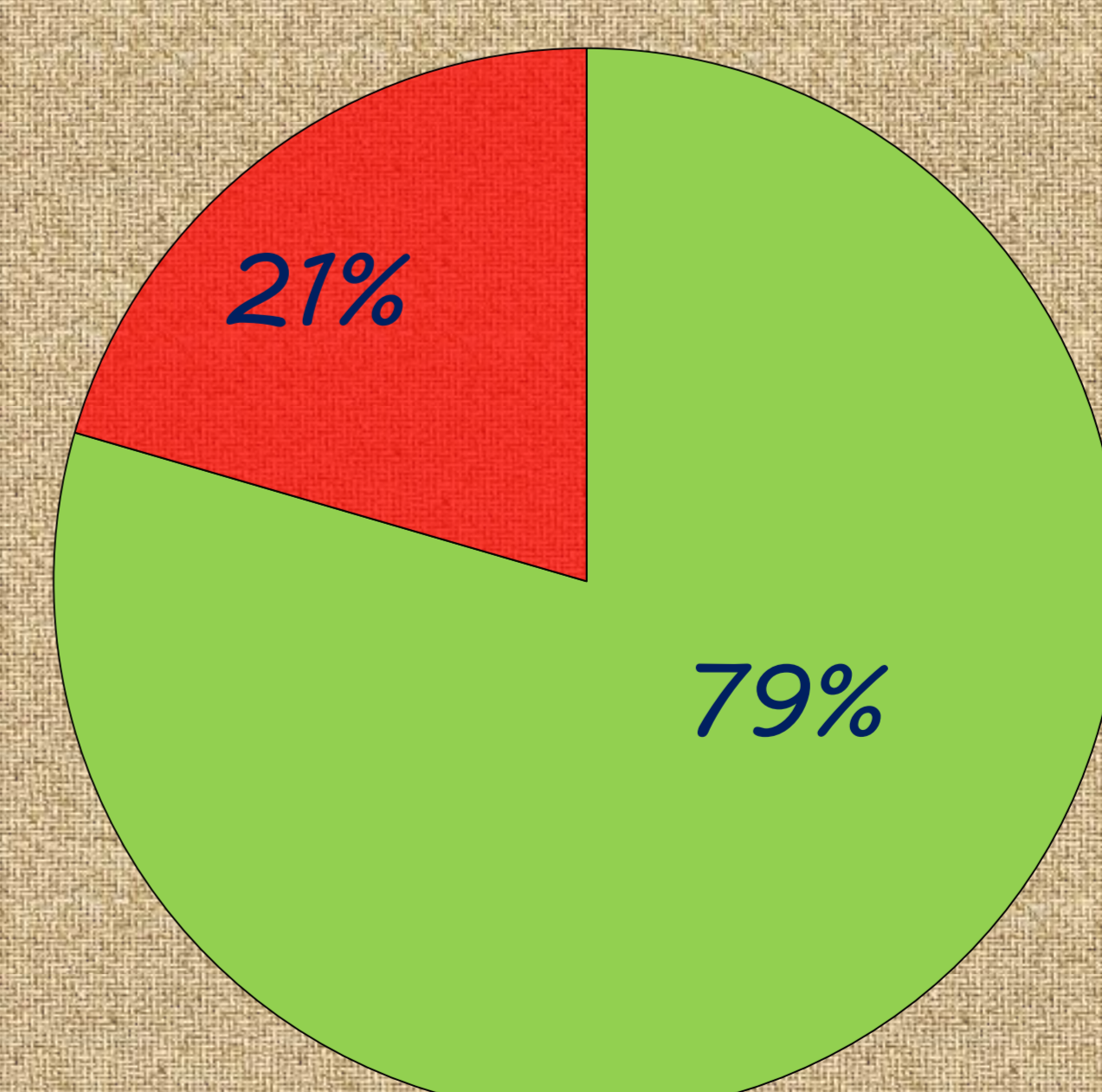
ANSWERS after the GAME



ANSWERS after TRADITIONAL LESSON



ANSWERS after COOPERATIVE LAB



- YES
- NO
- NO ANSWER

Preliminary findings showed each approach has its strengths and weaknesses and all three are effective to let pupils understand Soil as a non-renewable resource, at least this is true for pupils in this age group