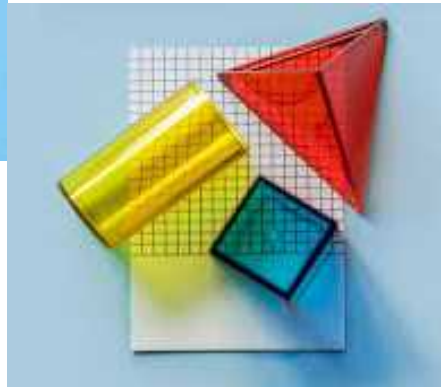




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Erasmus+ Call: 2019 - KA2 -



Erasmus+

This project is funded by the European Union.



3D printing technology aims students understanding maths and recycling procedure

02_1st Curricula of Maths: Fractions

Learning Objectives & Outcomes

Outline

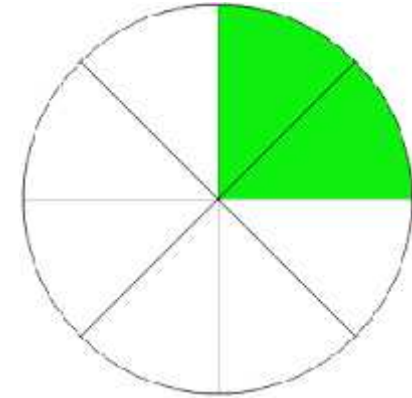
- Learning Outcomes: Students 6-10
- Learning Outcomes: Students 11-14





Learning Outcomes: Students 6-10_1

- At the end of the course, students will be able to use fractions
- Students will be able to recognize all types of fractions
 - Fractions of lengths
 - Fractions of shapes
 - Fractions of objects
 - Fractions of quantiles
- Students will write simple fractions that $\frac{1}{2}$ of 8 is 4
- Students will recognize that $\frac{1}{2}$ and $\frac{2}{4}$ have the same value





Learning Outcomes: Students 6-10_2

- Students will be able to
 - compare fractions
 - put fractions in order
 - add fractions with same denominator
 - subtract fractions with same denominator
 - divide numbers by 10
- Understand the relation between numbers, decimals, fractions
- Students will understand that $\frac{1}{2}$ and $\frac{2}{4}$ have the same value

$$\frac{1}{4} < \frac{2}{6} < \frac{3}{8}$$

Learning Outcomes: Students 6-10_3



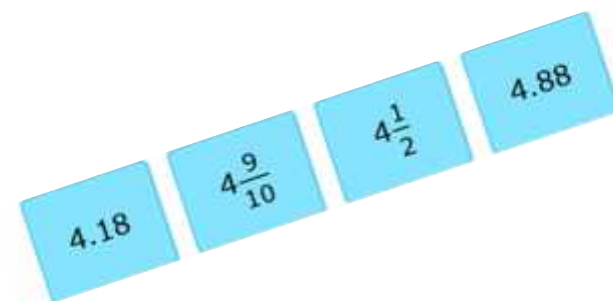
- Students will be able to
 - multiply fractions
 - divide fractions
- Students learn to use fractions in their rural life
- Students will learn to
 - write decimals in fractions i.e $0,6 = \frac{\quad}{\quad}$ / $0,06 = \frac{\quad}{\quad}$
 - round decimal number with one decimal place to the nearest number, i.e $4,3 \rightarrow 4$





Learning Outcomes: Students 6-10_4

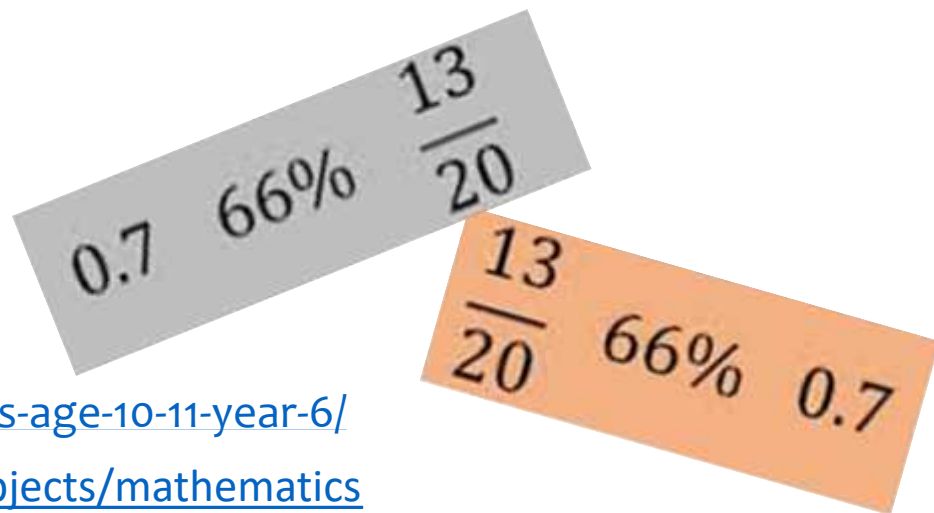
- Students
 - will learn mixed numbers
 - will learn to convert mixed numbers to fractions
- Students will learn to multiply fractions by mixed numbers
- Students will be able to recognize quantiles
- Students will understand the link among fractions and quantiles
- Students will learn percentages





Learning Outcomes: Students 11-14_1

- Students will be familiar to use fractions, decimals, percentages
- Students will be able to solve problems using fractions, decimals and percentages.
- Students will learn to
 - Simplify fractions
 - Multiply fractions by numbers
 - Divide fractions by numbers
 - using common factors to simplify fractions
- <https://home.oxfordowl.co.uk/maths/primary-maths-age-10-11-year-6/>
- <http://www.schoollearningoutcomes.edu.mt/en/subjects/mathematics>



Learning Outcomes: Students 11-14_2



- Students will learn to state a fraction between two other functions
- Students will recognize unit fractions and use them to find fractions of shapes, numbers and quantities.
- Students will understand the link between fractions and divisions
- Students will

- learn the number of tenths and hundredths in decimals to two places i.e. 3,4 in number of tenths is 34
- identify symbols for any fraction including improper fractions
- count forwards and backwards in halves, quarters, thirds, fifths, and tenths at least

