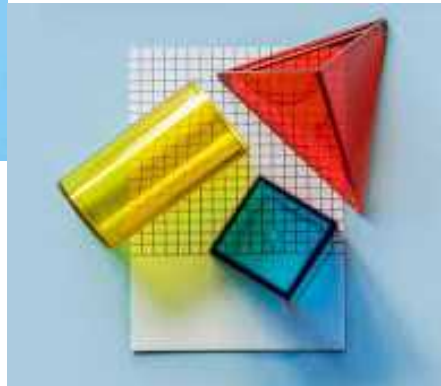




Project code:
2019-1-EL01-KA201-062914

Erasmus+ Call: 2019 - KA2 -



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3D printing technology aims students understanding maths and recycling procedure

02_1st Curricula of Maths: Fractions

Introduction to Fractions

Outline

- Definition of fractions
- To Remember
- Activities
- Videos



A NUMBER CALLED... FRACTION



$$\frac{3}{4}$$

Numerator

Denominator

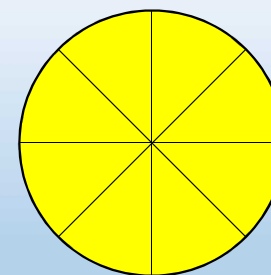
Fractional Parts

FRACTION

Number of parts of a whole
Total parts of a whole

ACTIVITY 1

- Divide a circle into 8 equal parts.
- Color 6 out of 8 parts.
- Write down the equivalent fraction.



Students Print

- ✓ 1 circle
- ✓ 8 equal parts of the circle



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To remember...

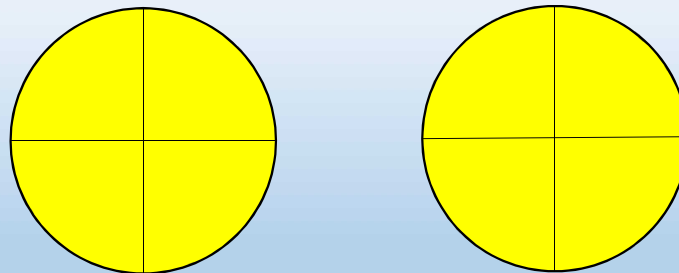


- ➔ Every fraction represents a **number**.
- ➔ Every fraction is formed by the **numerator** (top number) and the **denominator** (bottom number). These are the **fraction parts**.
- ➔ Fractions might also represent **parts of a whole**.
- ➔ Every fraction represents an answer to a **division** calculation.



ACTIVITY 2

- Divide 2 circles into 4 equal parts.
- Color 1 whole circle and $\frac{3}{4}$ of the other .
- Write down the equivalent fraction.



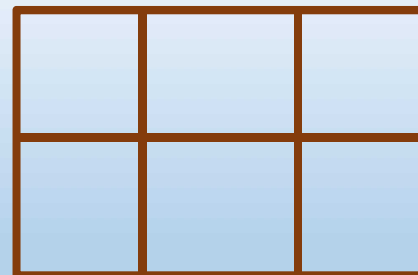
Students Print

- ✓ 1 circle
- ✓ 4 equal parts of the circle

ACTIVITY 3

A chocolate weighs 120gr and has 6 equal pieces.

- Which part of the chocolate is each piece?
- How many pieces must we cut to eat 40gr of chocolate?



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To remember...



- ➔ **Proper fraction:** A fraction whose numerator is less than its denominator.
- ➔ **Improper fraction:** A fraction whose numerator is greater than its denominator.
- ➔ **Mixed fraction:** A fraction that is written as a combination of a natural number and a proper fraction.
- ➔ **Unit fraction:** A unit fraction is a fraction in which the numerator is equal to 1.



ACTIVITY 4

Categorize the following fractions:

$$\frac{5}{7}, \frac{4}{3}, 2\frac{1}{3}, \frac{1}{8}, \frac{12}{5}, 9\frac{7}{11}, \frac{1}{13}, \frac{10}{9}, \frac{3}{14}, \frac{1}{10}$$

- Proper Fractions:
- Improper fractions:.....
- Mixed Fractions:.....
- Unit fractions:.....

To remember...



➔ **Proper fraction:** Numerically, a proper fraction is always less than 1.

➔ **Improper fraction:** An improper fraction is always greater than 1.

➔ **Mixed fraction:** A mixed fraction is always greater than 1.

➔ **Any mixed fraction** is an improper fraction.

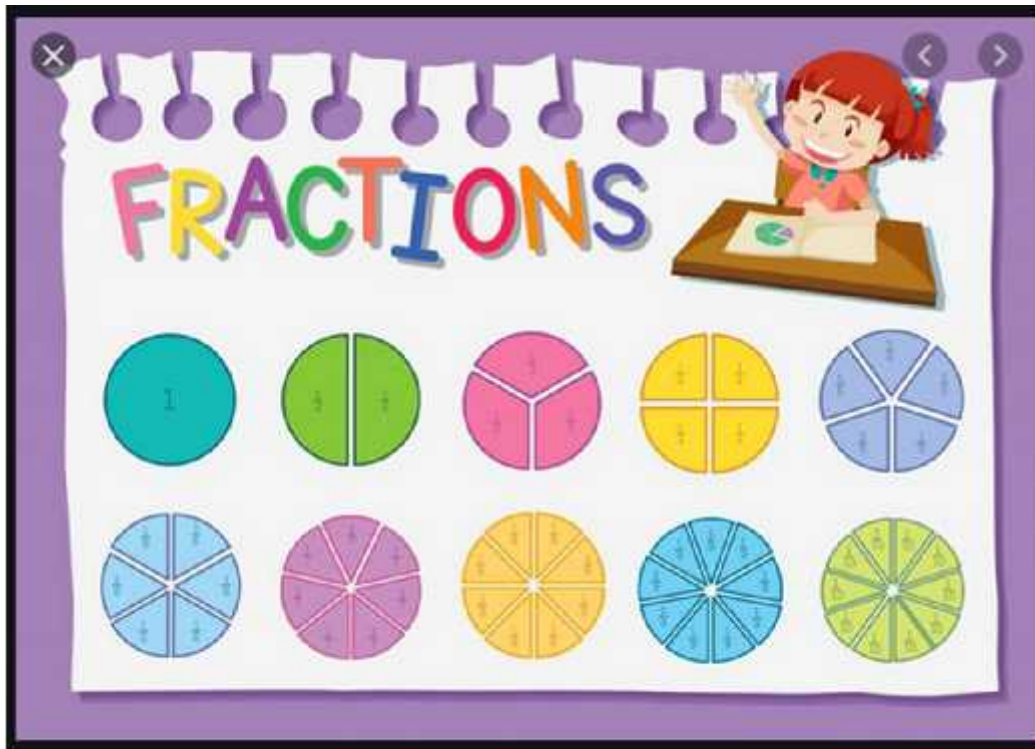
Fraction



Students Print

- ✓ 1 rectangle
- ✓ 4 equal parts of the rectangle

Videos



- Fractions

<https://youtu.be/jgWqSjgMAtw>

- Introduction to Fractions

<https://www.youtube.com/watch?v=znM>