

FRACTIONS: DESIGN YOUR OWN FLAG

This activity allows students to explore the concept of fractions with a focus on quarters. Adaptions can be made by changing the fraction. We want students to discover that the same fraction can look different but still have the same quantity/ amount.

GENERAL INFORMATION

For year levels: 2/3

Author: Anna Bock

Background/Description:

This activity allows students to explore the concept of fractions with a focus on quarters. Adaptions can be made by changing the fraction. We want students to discover that the same fraction can look different but still have the same quantity/ amount. The way students partition their flag will provide insights into their level of understandings of quarters.



Materials: Pencils & paper

Objective: To represent/show a quarter in a variety of ways.

Instructions:

- Imagine you were the ruler of your own country.
- You need a flag to represent your country.
- Design a flag that is one-quarter blue.
- Ask students if they know what one quarter is.
- What might your flag look like?
- Students create their flag design.
- Students can create more than one design.

Some questions to prompt student thinking:

- Is there more than one possible answer?
- Do all the parts need to be the same size?
- Do all the parts need to be the same shape?
- Can you name the parts?
- What is the same in each of your designs?
- What is different in each of your designs?
- What would you say to someone who said that not all your designs show one-quarter blue?
- How could you convince that person?

FURTHER INFORMATION

Notes for parents: Exploring different ways of showing a quarter and justifying that it is a quarter is important as it demonstrates an understanding that a fraction can look different but still be the same quantity/amount.

This activity covers the following Australian Curriculum - Mathematics Content:**Year 2:**

Recognise and interpret common uses of halves, quarters and eighths of shapes and collections (ACMNA033)

Year 3:

Model and represent unit fractions including $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{3}$, $\frac{1}{5}$ and their multiples to a complete whole (ACMNA058)