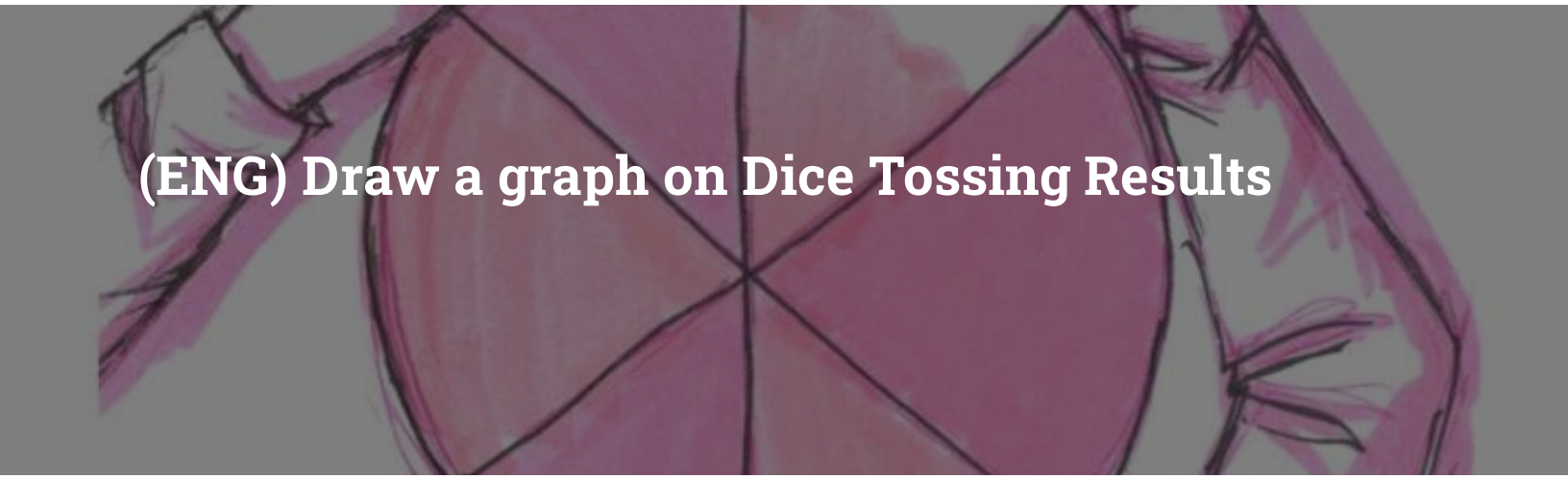


(ENG) Draw a graph on Dice Tossing Results

Introduction

Step 1 - Motivational Stage

Step 2 - Investigational Stage

Step 3 - Consolidation Stage

Introduction

#In-class activity #Online activity #Inquiry-based learning #Experiential learning #Art work

Pupils make different tables and graphical representations of what the probabilities are for the sums of the eye numbers when two dice are thrown.

Learning Objectives

- [ ] understand and experiment info graphs

ACTIVITY DETAILS

Activity Details

Connection of the activity with Art

Infographic design

Link to local, national School Curriculum

Perusopetuksen opetussuunnitelman perusteet 2014:
3.-6. class mathematics, 7.-9. class mathematics

Equipment required

- internet connection

Duration of activity

45 minutes

Sources

Picture credit:

Vilma Mantere
Drawing a pie chart 2022
Digital drawing
Owner: Heureka
Open source

Step 1 - Motivational Stage

"How does the information contained in various graphic representations reach us?"

Step 2 - Investigational Stage

STUDENTS' TASKS

1

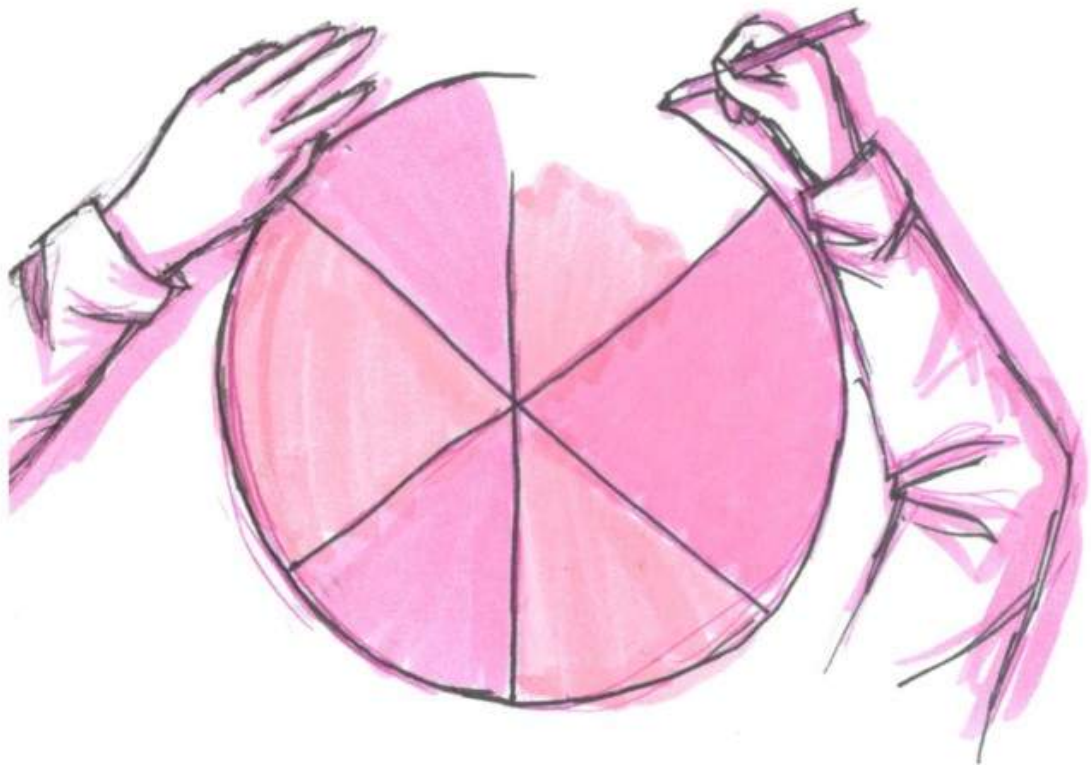
Task 1

Pupils start by doing the task “Roll the dice”

Task 2

hey then make four different graphical illustrations of the results with these instructions:

1. Use black and white bars to draw the amounts of different options
2. Draw the same bar illustration, but now in colour
3. Draw a pie chart where the different options have their own sectors
4. Assemble a stack or pile of building blocks, dry macaroni or even pinecones describing each option



Pupils can also come up with other ways to illustrate the results.

3

Finally, they make an aesthetically beautiful infographic using, for example, the collage technique.

Step 3 - Consolidation Stage

Pupils present their illustrations to a schoolmate or family member and ask their feedback.

- Which visual representation is the easiest to understand?
- Which one was the most difficult to create?
- Can they think of other ways of illustrating the results?

Finally, they create an aesthetically appealing infographic, for example by using a collage technique.

End of the activity

EXIT