

BEFORE ACTIVITY

Read the following assumptions and state whether you agree or disagree.

1. When we compare two fractions whose denominators are the same, the fraction with a bigger numerator is bigger. _____
2. When we compare two fractions whose numerators are the same, the fraction with a bigger denominator is bigger. _____

MAIN ACTIVITY

Part (a): Filling the Table

In this part, you will use a Scratch project to explore and compare different proper fractions. You will analyze how changes in numerators and denominators affect the value of a fraction. Please follow the instructions on Scratch and fill in the table. The Scratch program tells you where you need to record.

Cases	Fraction-1	Draw Fraction-1	Fraction-2	Draw Fraction-2	Which one is greater?
A					
B					
C					
D					

Part (b): Observations

Answer the following questions by referring to the table you fill in.

- a) In which cases denominators are same but numerators are different? _____ and _____
- b) How does changing the numerators affect the value of fractions? Explain.

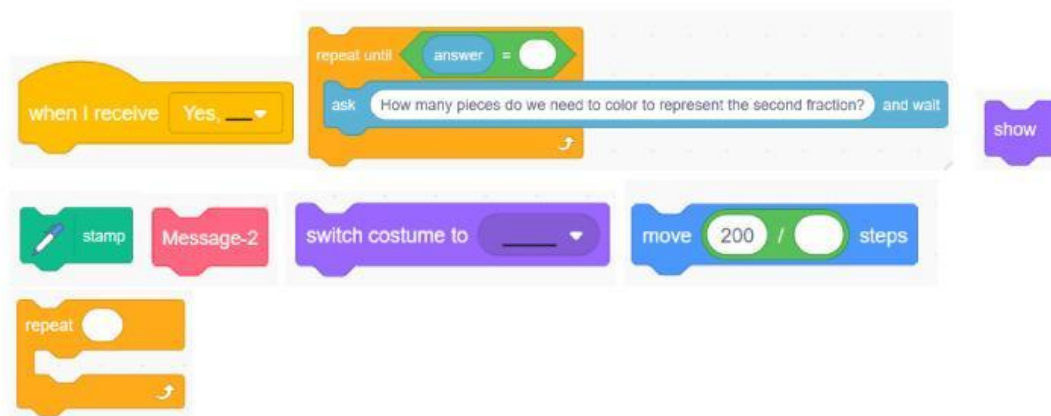
- c) In which cases numerators are same but denominators are different? _____ and _____
- d) How does changing the denominators affect the value of fractions? Explain.

Part (c): Understanding the Code

- a. The following is a part of the codes that belong to the Pencil sprite in the Scratch program. Can you explain which process occurs in that part? Please explain each code.



- b. The following codes belong to pencil and pieces sprite. Determine which codes belong to which spirit. Then order and write the correct input to create $\frac{7}{8}$. (The rectangular shape has a size of 200x50)



Codes For Pencil Sprite	Codes For Pieces Sprite

AFTER THE ACTIVITY

Read the following assumptions again and state whether your answers change or stay the same.

- When we compare two fractions whose denominators are the same, the fraction with a bigger numerator is bigger. _____
- When we compare two fractions whose numerators are the same, the fraction with a bigger denominator is bigger. _____

