

Fractions of a Group

FOR TEACHERS

Content: Representation of fractions of a group or collection.

Materials required: Buttons, dot sheets and sketch pens.

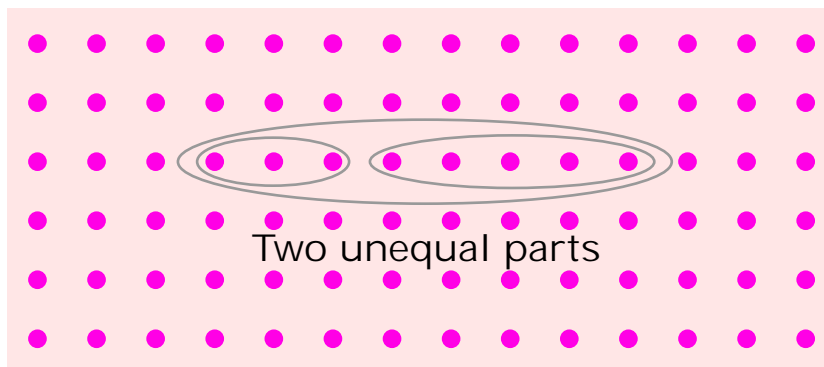
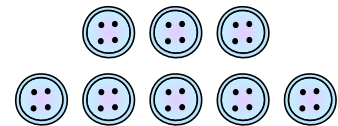
Learning outcome: Children understand that anything can be taken as a whole and divided into unequal or equal parts.

ACTIVITY

A. Do the activity as explained.

1. Unequal parts

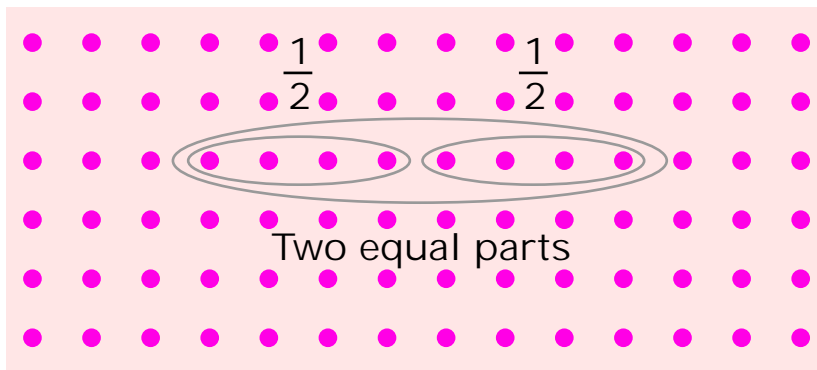
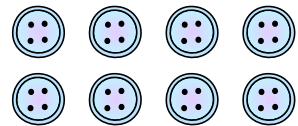
- Take 8 buttons. Consider them as a collection.
- Divide this whole into 2 unequal parts.
- Show this on a dot sheet as given.
- Record your findings– the greater part and the smaller part.
- Your dot sheet may look like this.



For teachers: Tell the children that their unequal parts need not necessarily look like the one given above. A whole can be divided into unequal parts in different ways.

2. Equal parts

- Again take 8 buttons and consider them to be a whole.
- Now divide this whole into 2 equal parts.
- Represent this on a dot sheet.
- Your dot sheet will look like this.



- Each part contains half the number of buttons.
- Each part is $\frac{1}{2}$ of the total number.

B. Do the activity with buttons and dot sheet.

- Look at the number cards below.
- Take out as many buttons. Consider them to be a whole set.
- Divide them into unequal parts.
- Mark this on a dot sheet.
- Divide them into equal parts.
- Show this on a dot sheet.

1.

22

2.

4

3.

12

4.

10

5.

6

For teachers: Do the above button activity for showing equal and unequal parts with more numbers to make them thorough with the concept. You can use other commonly available things besides buttons.