

Grade Level / Content Area:	Grade 3-5 / Math - Fractions
Standards:	CCSS.MATH.CONTENT.3.NF.A.3.A CCSS.MATH.CONTENT.3.NF.A.1
Concept/Topic to Teach:	Equal Parts, One Half

I. Getting students set to learn Fractions

Introduction/Review; What is a Fraction? *A comparison of one part to the whole set of parts.* Perform a simple exercise by having students count off by threes then having all ones, twos and threes raise their hands and recording on the board what fraction of the class are ones, then twos and then threes. Show the fractions in both the traditional ($\frac{a}{b}$) and (optionally) the in-line (a/b) ways.

Anticipatory Set; We will start by learning the fraction one half or ($\frac{1}{2}$) or $\frac{1}{2}$.

Objectives;

- The students will be able to recognize equal numbers of parts (halves) within a group.
- Students will be able to write the fraction one half using the traditional ($\frac{1}{2}$) and the in-line (1/2) methods.
- Students will understand what one half of something means by explaining a problem they've completed to the teacher.

II. Instruction

Input and Modeling; Go through the first two examples from the work sheet together. Explain the importance of listening to or reading the problem carefully before attempting to answer it. Ask the students to complete the remainder of the first worksheet page.

III. Checking for understanding

Checking Understanding; Review the student's completed first worksheet pages and explain any errors.

Guided Practice; Have the students complete the second page of the worksheet.

IV. Independent practice – Hands-On Learning

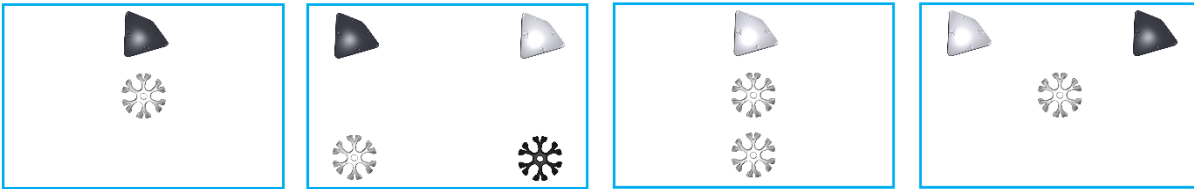
Independent Practice;

Pass out the HyPars Educational kits to the students and indicate these parts will be used to continue to learn fractions.

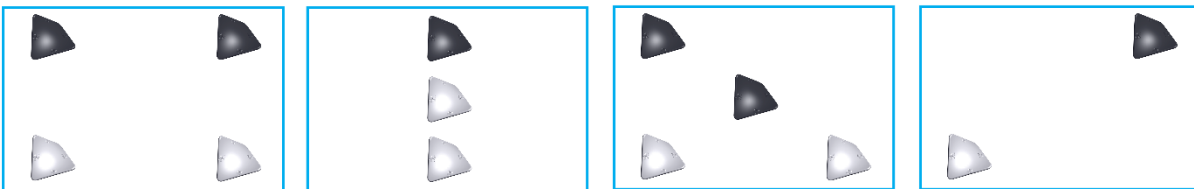
- From the HyPars Educational Kit parts, have each student make one group of connectors and a second group containing an equal number of HyPars.
- Have the students assemble (connect) their Connectors and HyPars into an assembly.
- Ask the students to tell what fraction of their assembly is Connectors.
- Ask the students to tell what fraction of their assembly is HyPars.
- Upon confirmation of each student understanding the fractions of the first assembly correctly, have the students do a second example assembly and again tell what fraction is Connectors and what fraction is HyPars.
- Have the students disassemble their assemblies and put the parts away back into their HyPars Educational Kits.

Equal Parts, One Half

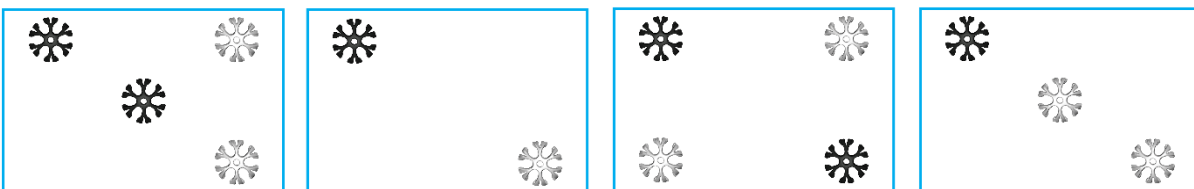
1) Circle the groups that have an equal number of HyPars and Connectors.



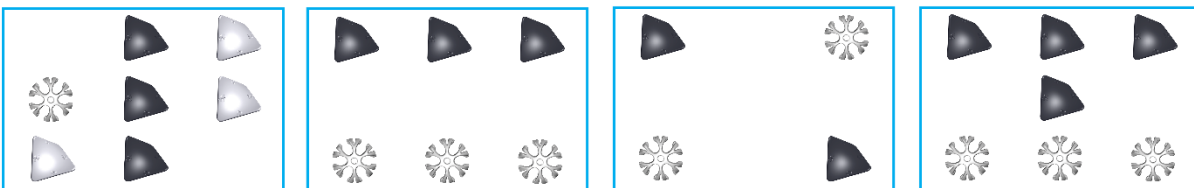
2) Circle the groups that have an equal number of black HyPars and white HyPars.



3) Circle the groups that have an equal number of black Connectors and white Connectors.

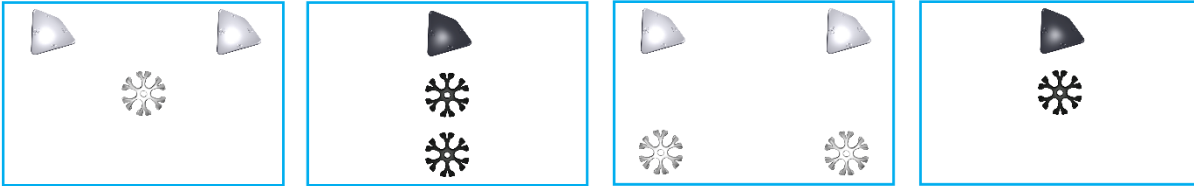


4) Circle the groups that have an equal number of black HyPars and white Connectors.

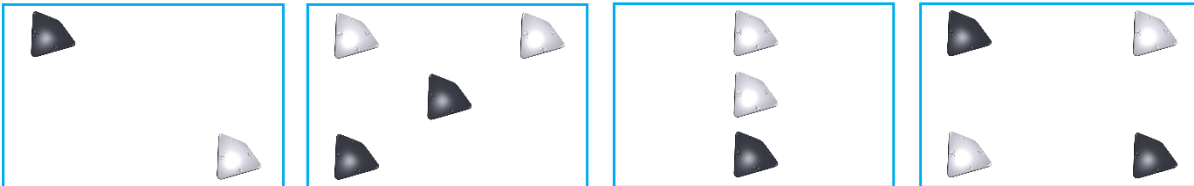


Equal Parts, One Half

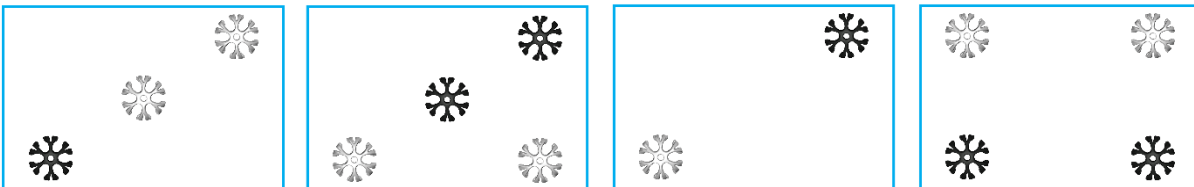
5) Circle the groups that have an equal number of HyPars and Connectors.



6) Circle the groups that have an equal number of black HyPars and white HyPars.



7) Circle the groups that have an equal number of black Connectors and white Connectors.



8) Circle the groups that have an equal number of black HyPars and white Connectors.

