

Grade Level / Content Area:	Grade 3-5 / Math - Fractions
Standards:	CCSS.MATH.CONTENT.3.NF.A.3.D CCSS.MATH.CONTENT.3.NF.A.2.B
Concept/Topic to Teach:	Order Simple Fractions $\frac{1}{2}$, $\frac{1}{3}$ and $\frac{1}{4}$

I. Getting students set to learn Fractions

Introduction/Review; What is a Fraction? *A comparison of one part to the whole set of parts.* Discuss the work with fractions the class has recently done.

Anticipatory Set; Demonstrate what is the numerator and what is the denominator of a fraction. Explain how, given the same numerator, the larger the denominator becomes, the smaller the fraction becomes – illustrate this on the board.

Objectives;

- The students will be able to order simple fractions with like numerators from smallest to largest and from largest to smallest.
- The students will be able to understand why the value of fractions with like numerators decrease as the denominator increases by explain 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 reading or listening to 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 explain these parts will be used to begin to learn more about fractions.

- From the HyPars Educational Kit parts, have each student make one group made up of connectors and a different number of HyPars. Ask the students what fraction of their group is Connectors and what fraction of their group is HyPars.
- Have the students assemble (connect) their Connectors and HyPars into an assembly.
- Have students repeat telling what fraction of their assembly is Connectors and what fraction is HyPars.
- Upon confirmation of each student understanding the fractions of the first assembly correctly, have the students do a second example assembly with a new second set of parts using the same number of Connectors as their first assembly but a different number of HyPars. Ask the students to identify what fraction of their new group is Connectors and what fraction is HyPars. Have the students assemble this second group of Connectors and HyPars. Ask the students which of their assemblies has the larger fraction of Connectors.
- Have the students disassemble their assemblies and put the parts away back into their HyPars Educational Kits.

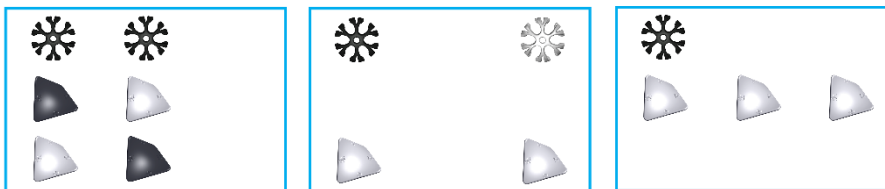
Order Simple Fractions $\frac{1}{2}$, $\frac{1}{3}$ and $\frac{1}{4}$ Worksheet

1. Write the fraction of Connectors in each Figure on the solid line below the Figures, then order them from smallest (1) to largest (3) on the dashed lines below the Figures.



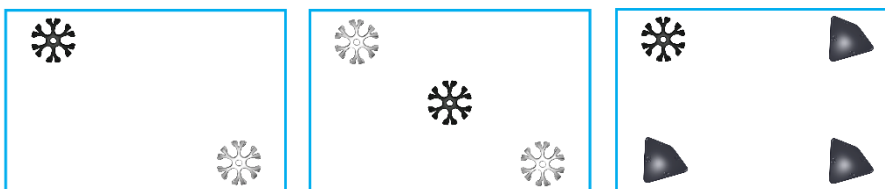
1a) _____ 1d) _____ 1b) _____ 1e) _____ 1c) _____ 1f) _____

2. Write the fraction of Connectors in each Figure on the solid line below the Figures, then order them from largest (1) to smallest (3) on the dashed lines below the Figures.



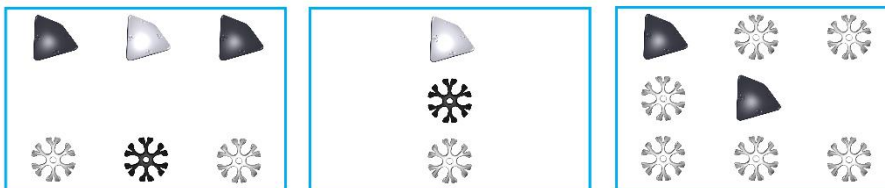
2a) _____ 2d) _____ 2b) _____ 2e) _____ 2c) _____ 2f) _____

3. Write the fraction of black Connectors in each Figure on the solid line below the Figures, then order them from largest (1) to smallest (3) on the dashed lines below the Figures.



3a) _____ 3d) _____ 3b) _____ 3e) _____ 3c) _____ 3f) _____

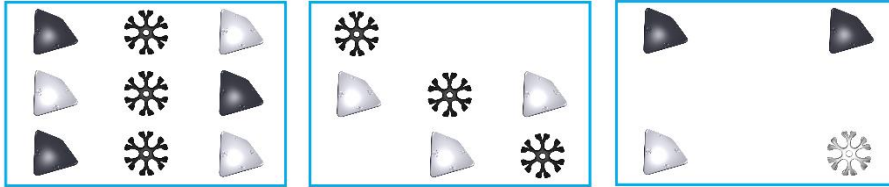
4. Write the fraction of HyPars in each Figure on the solid line below the Figures, then order them from smallest (1) to largest (3) on the dashed lines below the Figures.



4a) _____ 4d) _____ 4b) _____ 4e) _____ 4c) _____ 4f) _____

Order Simple Fractions $\frac{1}{2}$, $\frac{1}{3}$ and $\frac{1}{4}$ Worksheet

5. Write the fraction of Connectors in each Figure on the solid line below the Figures, then order them from smallest (1) to largest (3) on the dashed lines below the Figures.



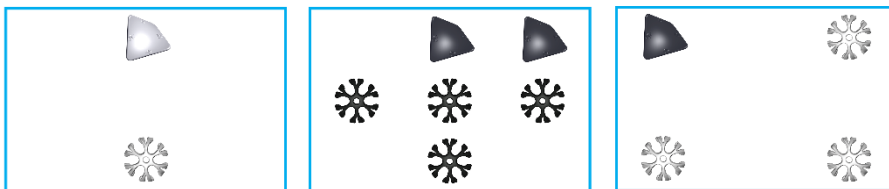
5a) _____ 5d) _____ 5b) _____ 5e) _____ 5c) _____ 5f) _____

6. Write the fraction of Connectors in each Figure on the solid line below the Figures, then order them from largest (1) to smallest (3) on the dashed lines below the Figures.



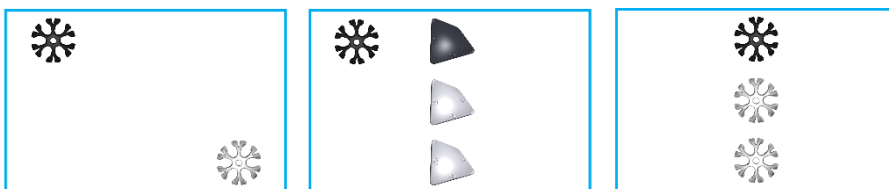
6a) _____ 6d) _____ 6b) _____ 6e) _____ 6c) _____ 6f) _____

7. Write the fraction of HyPars in each Figure on the solid line below the Figures, then order them from largest (1) to smallest (3) on the dashed lines below the Figures.



7a) _____ 7d) _____ 7b) _____ 7e) _____ 7c) _____ 7f) _____

8. Write the fraction of black Connectors in each Figure on the solid line below the Figures, then order them from smallest (1) to largest (3) on the dashed lines below the Figures.



8a) _____ 8d) _____ 8b) _____ 8e) _____ 8c) _____ 8f) _____