EAI® EDUCATION

JUMBO! MAGNETIC QuietShape® Fraction Tiles

Jumbo Magnetic QuietShape® Fraction Tiles are engaging, highly visible, easy-to-manipulate, durable, convenient, and fun. The full magnetic backing enables the jumbo fraction tiles to securely attach to any magnetic surface and to bring instant excitement to your lesson.

Set Contains:

A total of 67 jumbo fraction tiles. The brightly colored foam tiles include ½, ⅓, ¼, ⅕, ⅙, ⅛, 1/10, 1/12, 1/16, and 1 whole. Made of QuietShape® foam, each standard fraction grouping measures 8" across.

(1) blue whole

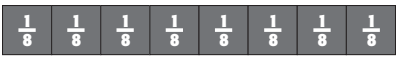
(2) brown 1/2

(3) black 1/3

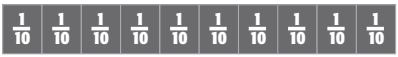
(4) yellow 1/4

(5) green 1/5

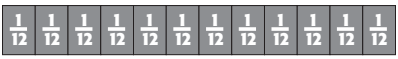
(6) orange 1/6



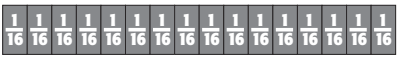
(8) red 1/8



(10) purple 1/10



(12) magenta 1/12



(16) turquoise 1/16

WARNING:
CHOKING HAZARD - SMALL PARTS.
NOT FOR CHILDREN UNDER 3 YRS.

WARNING:
This product contains (a) small magnet(s). Swallowed magnets can stick across intestines causing serious infections and death. Seek immediate medical attention if magnet(s) are swallowed or inhaled.

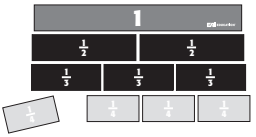
Activities

1. Explore and Investigate

Provide time for each student to freely explore and manipulate the fraction tiles on their own. Discuss the students' findings.

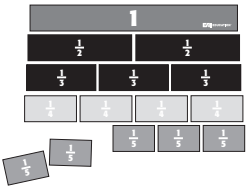
2. Fraction Towers

Build a fraction tower. Begin by placing the "whole" fraction tile at the top of the board. Next, add the two ½ tiles directly underneath the whole, side by side. Ask students to tell you something they notice.



Next, add the ⅓ tiles, and then the ¼ tiles, continuing to build a tower. After each additional row, ask students to continue with their observations.

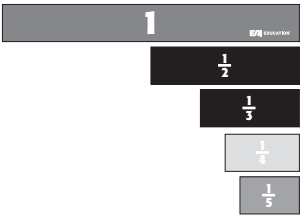
If patterns have not been noticed, ask students to look for some. Have students determine which set of tiles would be next, if the current pattern was continued.



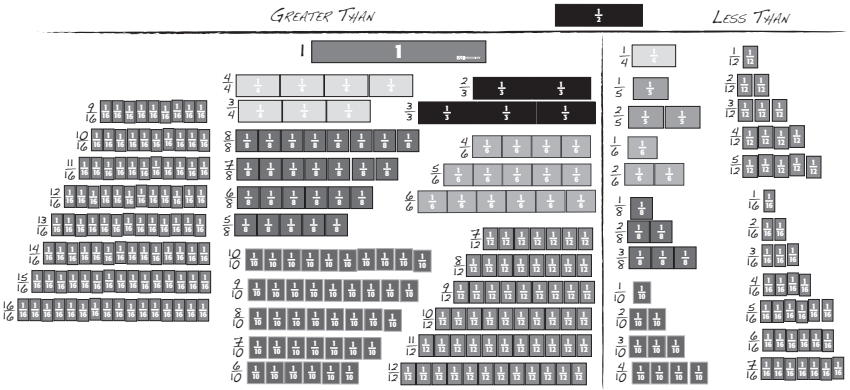
3. Comparing Tiles

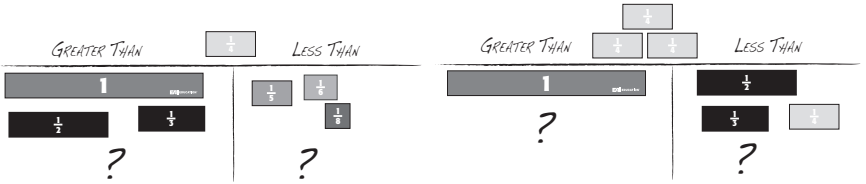
Part A: Place the following tiles up on the board in order: 1, ½, ⅓, ¼, ⅕. Explore what can be noted about the size of the tile as the denominators change.

Rearrange the tiles. Ask students to place them in order from least to greatest or greatest to least.



Part B: The teacher selects a tile and asks students to find other fraction tiles that are smaller/larger. Create a list of all fractions that are smaller/larger than ½. Repeat using ¼ and ¾.

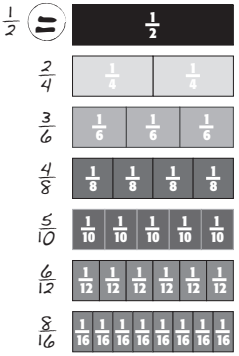




4. *Equivalent Fractions*

Place the ½ tile on the board. Have the students use the other fraction tiles to determine equivalent fractions for ½ by lining the pieces up under the ½ tile. List the equivalent fractions discovered.

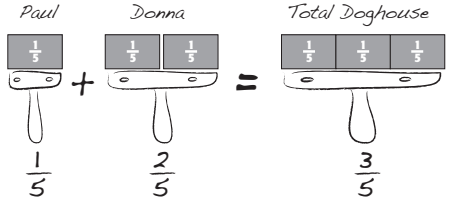
Extend the activity by investigating equivalent fractions for ¼, ¾, and 1 whole.



5. *Solving Word Problems*

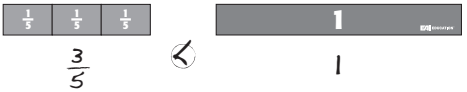
Part A: Present word problems that address adding or subtracting fractions with like denominators. See example:

Paul and Donna are helping to paint Fido's doghouse. ⅕ of the doghouse will be painted by Paul. (Place the ⅕ tile on the board.) ⅖ of the doghouse will be painted by Donna. (Place the ⅖ tile on the board.) What fraction of the doghouse are Donna and Paul painting?



$$\frac{1}{5} + \frac{2}{5} = \frac{3}{5}$$

Compare the answer to 1 whole. Will the entire doghouse be painted? How do you know?



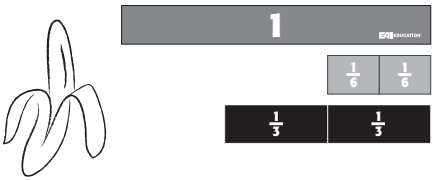
Part B: Have students create their own word problems using like denominators. Collect the problems and solve together as a class using the Jumbo Magnetic Fraction Tiles.

6. *Banana Split!*

Bridget and Terrence decided to share a banana as an after school snack. Bridget ate ⅔ of the banana, and Terrence ate ⅔ of the banana. Who ate more banana?

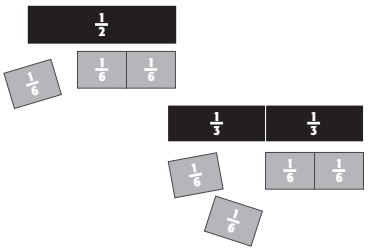
Place the 1 whole tile on the board.

Underneath, place two ⅙ tiles and two ⅓ tiles. Compare the fractions and determine who ate more banana.



How many sixths would Bridget have eaten in order to make ½ of the banana?

How many sixths would it take to equal to the amount eaten by Terrence?

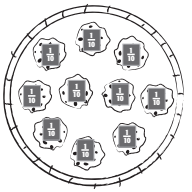


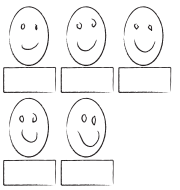
7. *Story Time*

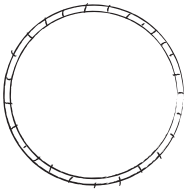
Students can act out a word problem involving fractions, and the "narrator" can model the math being used with the jumbo fraction tiles. See example.

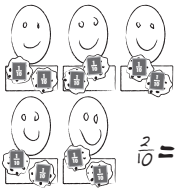
Jamie brought in a plate with 10 giant cookies for his birthday. Jamie wants to split the cookies between himself and four friends. What fraction of the plate of cookies will Jamie and each friend get?

To act out the problem, draw a giant, circular plate on the board. Place all ten of the 1/10 pieces inside the plate to represent the cookies. Have "Jamie" physically distribute the "cookies" evenly between him or herself, and four classmates. Have each of the friends and "Jamie" hold up their fraction pieces. What fraction is it?









Each child gets 1/5 of the cookies on the plate.

EAI 533071
MADE IN CHINA Conforms to ASTM F963-07