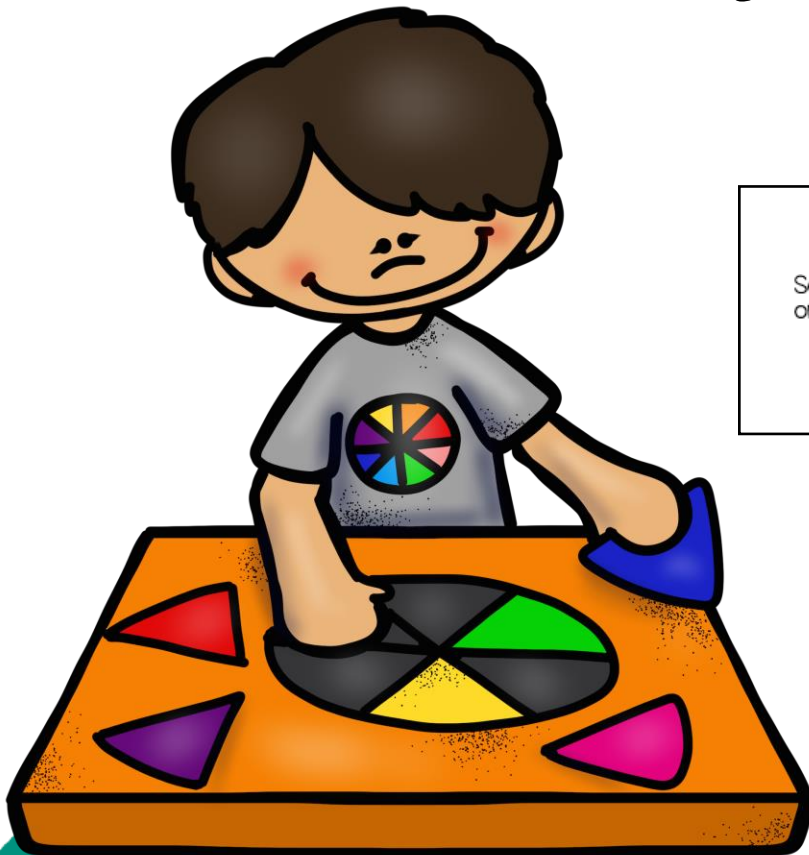


Multiply and Justify



Multiply and Justify

Solve the following problems using an area model, fraction manipulatives, or a number line.

$$4 \times \frac{1}{6}$$

$$6 \times \frac{1}{3}$$

$$3 \times \frac{1}{8}$$

Multiply and Justify

Materials:

- Fraction manipulatives
- Math journal or paper
- Writing and drawing supplies

Directions:

- 1) Students read and answer the questions on the center card.
- 2) Students use an area model, fraction manipulatives, or number line to justify their responses.

Multiply and Justify

Solve the following problems using an area model, fraction manipulatives, or a number line.

$$4 \times \frac{1}{6}$$

$$6 \times \frac{1}{3}$$

$$3 \times \frac{1}{8}$$

Based on the equations you have solved above what conclusions can you make about multiplying a whole number by a fraction less than 1? Is the product less than, greater than, or equal to the whole number? How can you justify your thinking?

Solve the following problems using an area model, fraction manipulatives, or a number line.

$$4 \times 1\frac{1}{3}$$

$$3 \times 1\frac{1}{2}$$

$$6 \times 1\frac{1}{4}$$

Based on your solutions, what conclusions can you make about multiplying a whole number by a fraction greater than 1? Is the product less than, greater than, or equal to the whole number? Be ready to justify your solution.

Graphics and Fonts

