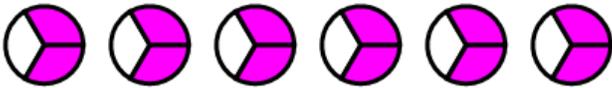


Multiplying a Fraction by a Whole Number

Example: $\frac{2}{3} \times 6 = ?$

Strategy 1: Use a visual model.

1) Draw $\frac{2}{3}$ six times.



2) Count the shaded parts. There are 12 thirds shaded.

3) $12/3 = 4$.

Strategy 2: Use the algorithm.

1) Rewrite the equation with the whole number as a fraction.

$$\frac{2}{3} \times \frac{6}{1} = \frac{12}{3}$$

2) Now multiply the numerators together and multiply the denominators together.

$$\frac{2}{3} \times \frac{6}{1} = \frac{12}{3} = 4$$

Activities To Try At Home

- Brainstorm with your child examples of how we use fractions in every day—cooking, weight, measurement, etc.
- Practice dividing objects into fractional pieces such as halves, thirds, fourths, sixths, eighths, etc. For example, ask your child to divide a cookie so that he/she could share it equally with 4 people. Ask, "What fraction would we have if we had one piece? Three pieces?"
- Practice identifying types of angles by having your child look for examples of different angles around the house. For example, a window could have a right angle. The hands of the clock make different angles throughout the day. Have your child explain how they know the type of angle (acute, obtuse, and right).
- Use recipes for real-life situations in which you would multiply with fractions. If a recipe calls for $\frac{1}{3}$ cup of milk, how much would you need if you made 3 batches?
- Use measurement to practice addition and subtraction of fractions. For example, a child could measure out $3 \frac{1}{2}$ feet of yarn. Ask him/her to cut off $\frac{1}{2}$ foot. How much is left? Also, if you need a string that is $\frac{1}{4}$ of a foot long to make a hanger for an ornament, how many feet of string would you need to make six ornament hangers?

MATH TASK

Plastic Building Blocks

From: *Illustrative Mathematics*

Dennis and Cody are building a castle out of plastic building blocks. They will need $2 \frac{1}{2}$ buckets of blocks for the castle they have in mind. Dennis used to have two full buckets of blocks but lost some and now has $1 \frac{3}{4}$ buckets. Cody used to have two full buckets of blocks too but now has $1 \frac{1}{4}$ buckets.

If Dennis and Cody combine their buckets of blocks, will they have enough to build their castle?

Solution: Combined, the boys have 3 buckets of plastic building blocks.

