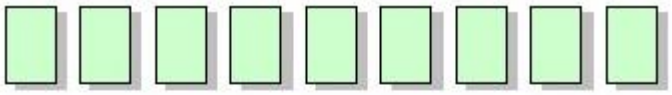
Multiply Fractions and Whole Numbers

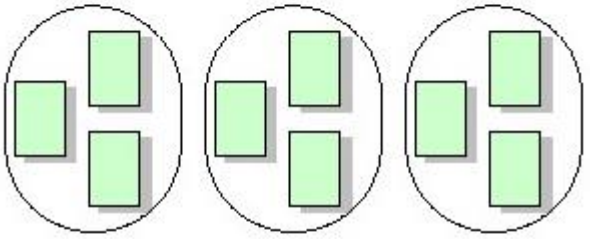
Hisham has 9 baseball cards. He gave $\frac{2}{3}$ of them to his friend Nader.
How many baseball cards did he give to Nader?

You can answer the question by multiplying $\frac{2}{3} \times 9$.

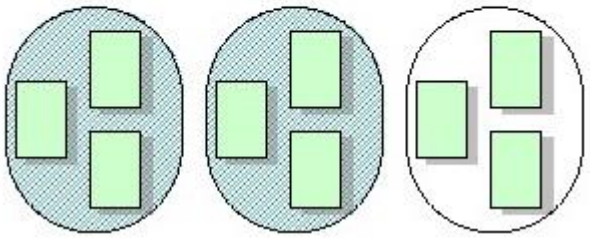
To multiply a fraction with a whole number you can use a model:



STEP 1
Draw 9 rectangles to show the cards.



STEP 2
The denominator of the fraction $\frac{2}{3}$ is 3. This means there are 3 equal parts, so divide the rectangles into 3 equal groups.



STEP 3
The numerator of the fraction $\frac{2}{3}$ is 2. This means there are 2 parts given, so shade 2 of the groups.

STEP 4
Count the shaded rectangles, or cards. There are 6 cards.

So, $\frac{2}{3} \times 9 = 6$

Examples:

A- Find the product.

1) $3 \times \frac{2}{5}$

$\frac{3 \times 2}{5}$

$\frac{6}{5}$

2) $5 \times \frac{3}{8}$

$\frac{5 \times 3}{8}$

$\frac{15}{8}$

3) $11 \times \frac{1}{9}$

$\frac{11 \times 1}{9}$

$\frac{11}{9}$

4) $16 \times \frac{4}{15}$

$\frac{16 \times 4}{15}$

$\frac{64}{15}$

My Real Life

Daisie has 12 picture frames. She gave $\frac{3}{6}$ to her friends. How many frames did she give?

$12 \times \frac{3}{6} = 6$ picture frames