Dividing Fractions
NF. 7 Divide fraction by a whole number, whole number by a fraction, and solve real world problems.


Dividing a Whole Number by a Fraction

$$
6 \div \frac{1}{4}=24
$$



How many are
there altogether?


## Example of dividing a fraction by a whole number:

A popcorn store donates its boxes of popcorn for use as prizes at a team competition. How much popcorn does each team member get if a two-person team shares a $1 / 3$ pound box?

Strategy for equation:

$1 / 3 \times 1 / 2=1 / 6$
Answer: Each team member gets $1 / 6$-pound box of popcorn.

Example of dividing a whole number by a fraction:
How many $1 / 4$ cup servings are in 3 cups of chocolate?
$3 \div 1 / 4=12$

$$
=12
$$



Answer: There are 12, 1/4 cup servings in 3 cups of chocolate.

