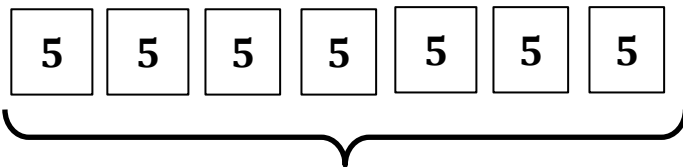# Relating Fractions & Whole Numbers

Whether you are working with whole number or fractions, you can use multiplication to solve problems that involve repeated addition.

WHOLE NUMBERS

QUESTION: At Casey's birthday party, she gave each of her 7 guests a gift bag with 5 favors. How many favors did she give out in all?

5	5	5	5	5	5	5

7 bags with 5 favors in each
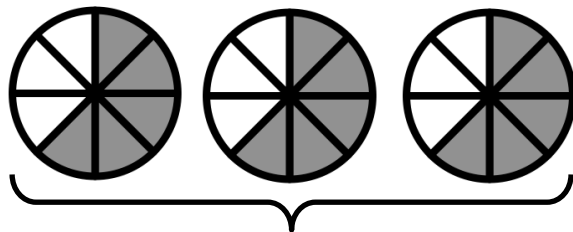
$5 + 5 + 5 + 5 + 5 + 5 + 5 = 35$ **REPEATED ADDITION**

$7 \times 5 = 35$ **MULTIPLICATION**

FRACTIONS

QUESTION: Casey had 3 pizzas at her party, each with a different topping. If Casey's guest ate $\frac{5}{8}$ of each pizza, what fraction of the pizzas was eaten in all?

3 sets of $\frac{5}{8}$

$\frac{5}{8} + \frac{5}{8} + \frac{5}{8} = \frac{15}{8}$ or $1\frac{7}{8}$ **REPEATED ADDITION**

$\frac{5}{8} \times 3 = \frac{15}{8}$ or $1\frac{7}{8}$ **MULTIPLICATION**