

# Lesson 17: Fractions as Partial Quotients

- Let's use fractions to help us divide whole numbers.

## Warm-up: What Do You Know About $\frac{60}{6} + \frac{6}{6}$ ?

What do you know about  $\frac{60}{6} + \frac{6}{6}$ ?

## 17.1: Select Expressions

1. Select **all** the expressions that are equivalent to  $\frac{78}{6}$ . Explain or show your reasoning.

A.  $78 \div 6$

B.  $\frac{66}{6} + \frac{12}{6}$

C.  $\frac{60}{6} + \frac{18}{6}$

D.  $(60 \div 6) + (18 \div 6)$

E.  $\frac{77}{6} + \frac{8}{6}$

F.  $(60 \div 6) + 18$

2. What is the value of  $78 \div 6$ ? Explain or show your thinking.

## 17.2: Choose One Expression

1. Use each expression to find the value of  $165 \div 15$ . Explain or show your thinking.

a.  $\frac{75}{15} + \frac{80}{15} + \frac{10}{15}$

b.  $\frac{30}{15} + \frac{30}{15} + \frac{30}{15} + \frac{60}{15} + \frac{15}{15}$

c.  $\frac{150}{15} + \frac{15}{15}$

2. Choose one expression and use it to find the value of  $540 \div 18$ . Explain or show your thinking.

a.  $\frac{180}{18} + \frac{180}{18} + \frac{180}{18}$

b.  $\frac{500}{18} + \frac{40}{18}$

c.  $\frac{360}{18} + \frac{180}{18}$

3. Which expressions were most helpful? Which expressions were least helpful? Explain or show your thinking.