



# Fractions as Partial Quotients

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

## Warm-up

**What Do You Know about  $\frac{60}{6} + \frac{6}{6}$ ?**

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## Activity 1

### Select Expressions

1. Select **all** expressions that have the same value as  $\frac{78}{6}$ . 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  $78 \div 6$ ? Show your thinking. Organize your work so it can be followed by others.

## Activity 2

### Choose One Expression

1. Use each expression to find the value of  $165 \div 15$ . Show your thinking. Organize your work so it can be followed by others.

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 of these expressions to find the value of  $540 \div 18$ . Show your thinking. Organize your work so it can be followed by others.

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 are most helpful? Which expressions are least helpful? Explain or show your reasoning.