## Grade 4 Unit 6

Lesson 18
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## Unit 6 Lesson 18: Divide with Partial Quotients

## WU Number Talk: Divide by 3 (Warm up)

## Student Task Statement

Find the value of each expression mentally.

- $90 \div 3$
- $96 \div 3$
- $960 \div 3$
- $954 \div 3$


## 1 Decompose Dividends

## Student Task Statement

1. Find the value of $465 \div 5$. Show your reasoning. You may use base-blocks if you find them helpful.
2. Here's how Priya finds the value of $465 \div 5$.

$$
\begin{array}{r}
400 \div 5=80 \\
60 \div 5=12 \\
5 \div 5=1 \\
465 \div 5=93
\end{array}
$$

a. What has Priya done? Describe her steps.
b. How is Priya's method similar to your method?
c. Use Priya's method to find the value of $428 \div 4$.

## 2 Tyler's Method

Student Task Statement
Tyler uses a different method to find the value of $465 \div 5$. Let's compare Priya's and Tyler's work.

$$
\begin{array}{rrl}
400 \div 5=80 & 93 & \\
60 \div 5=12 & 1 & \\
5 \div 5=1 & 12 & \\
\hline 465 \div 5=93 & 80 & \\
& 5 \longdiv { 4 6 5 } & \\
& \begin{array}{r}
400 \\
65 \\
\\
\end{array} & 5 \times 80 \\
& -\begin{array}{r}
60 \\
5
\end{array} & 5 \times 12 \\
& -\begin{array}{r}
0 \\
0
\end{array} & 5 \times 1
\end{array}
$$

1. How are Priya and Tyler's methods alike? How are they different? List as many similarities and differences as you can find.
2. Why do you think Tyler uses subtraction in his method?
3. Show how Tyler might record the process of finding the value of $428 \div 4$.

Images for Activity Synthesis
$9 \longdiv { 7 3 8 }$
$-\frac{720}{18} \quad 9 \times 80$
$-\quad 18 \quad 9 \times 2$

