

# Lesson 4: Another Look at the Standard Algorithm

- Let's subtract from numbers with zeros.

## Warm-up: Number Talk: Differences

Find the value of each difference mentally.

- $87 - 24$

- $387 - 124$

- $6,387 - 129$

- $6,387 - 4,329$

## 4.1: Lots of Zeros

1. Find the value of each difference.

a.

$$\begin{array}{r} 700 \\ - 16 \\ \hline \end{array}$$

b.

$$\begin{array}{r} 7,000 \\ - 16 \\ \hline \end{array}$$

c.

$$\begin{array}{r} 70,000 \\ - 16 \\ \hline \end{array}$$

d.

$$\begin{array}{r} 700,000 \\ - 16 \\ \hline \end{array}$$

2. Find the number that makes each expression true.

a.

$$\begin{array}{r} 43 \\ + \\ \hline 200 \end{array}$$

b.

$$\begin{array}{r} 43 \\ + \\ \hline 2,000 \end{array}$$

c.

$$\begin{array}{r} 43 \\ + \\ \hline 20,000 \end{array}$$

d.

$$\begin{array}{r} 43 \\ + \\ \hline 200,000 \end{array}$$

## 4.2: Ways of Finding Differences

To find the value of  $20,000 - 472$ , Priya and Han set up their calculations differently.

Priya

$$\begin{array}{r} 20,000 \\ - \quad 472 \\ \hline \end{array}$$

Han

$$\begin{array}{r} \quad 472 \\ + \quad \quad \quad \\ \hline 20,000 \end{array}$$

1. Use both methods to find the difference of 20,000 and 472.
2. Kiran uses another method. Explain how Kiran found the value of  $20,000 - 472$ .

$$\begin{aligned} 472 + 8 &= 480 \\ 480 + 20 &= 500 \\ 500 + 500 &= 1,000 \\ 1,000 + 19,000 &= 20,000 \\ 19,000 + 500 + 20 + 8 &= 19,528 \end{aligned}$$

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3. Which method do you prefer? Or do you prefer another way? Explain your reasoning.

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4. Find the value of  $50,400 - 1,389$ . Show your reasoning.