

## Problem Solving Task

Ms. Yu likes to collect different coins from around the world. She collected 343 last year. This year she has collected 179. How many coins does she have in total? Write a number sentence and solve using base ten blocks and the algorithm.

Base Ten Blocks	Algorithm
<p style="text-align: center; font-size: 1.2em;"><math>343 + 179 = \underline{\quad}</math></p>	<p style="text-align: center; font-size: 1.2em;"><math>343 + 179 = \underline{522}</math></p>

# Discussion Problems

1. A hungry shark was stalking three schools of fish. One school had 367 fish. The second school had 189 fish. How many fish were there in all? Write a number sentence and solve using base ten blocks and the algorithm.

Base Ten Blocks	Algorithm
<p style="text-align: center;"><math>367 + 189</math></p> <p style="text-align: center;">5      5      6</p>	$  \begin{array}{r}  367 \\  + 189 \\  \hline  556  \end{array}  $

2. Ms. Stacker made up a lot of dances. She created 369 dances in September and 34 dances in October. How many dances did she create? Write a number sentence and solve using base ten blocks and the algorithm.

Base Ten Blocks	Algorithm
<p style="text-align: center;"><math>369 + 34</math></p>	<p style="text-align: center;"> <math display="block">\begin{array}{r} 369 \\ + 34 \\ \hline 403 \end{array}</math> </p>

**Discussion Problems (continued)**

Directions - Solve the following problems using base ten blocks and the algorithm.

**287 + 214 = ?**

Base Ten Blocks			Algorithm
			$\begin{array}{r} 287 \\ + 214 \\ \hline 501 \end{array}$

**365 + 279 = ?**

Base Ten Blocks			Algorithm
			$\begin{array}{r} 365 \\ + 279 \\ \hline 644 \end{array}$

Name: A

Date: \_\_\_\_\_

### Exit Ticket

In Antarctica last year, they had 257 inches of snowfall in January and 286 inches in February. How many inches of snowfall did they have in January and February? Write a number sentence and solve using **base ten blocks** and the **algorithm**.

$$286 + 257$$

<u>Base Ten Blocks</u>	<u>Algorithm</u>
	$  \begin{array}{r}  286 \\  + 257 \\  \hline  543  \end{array}  $

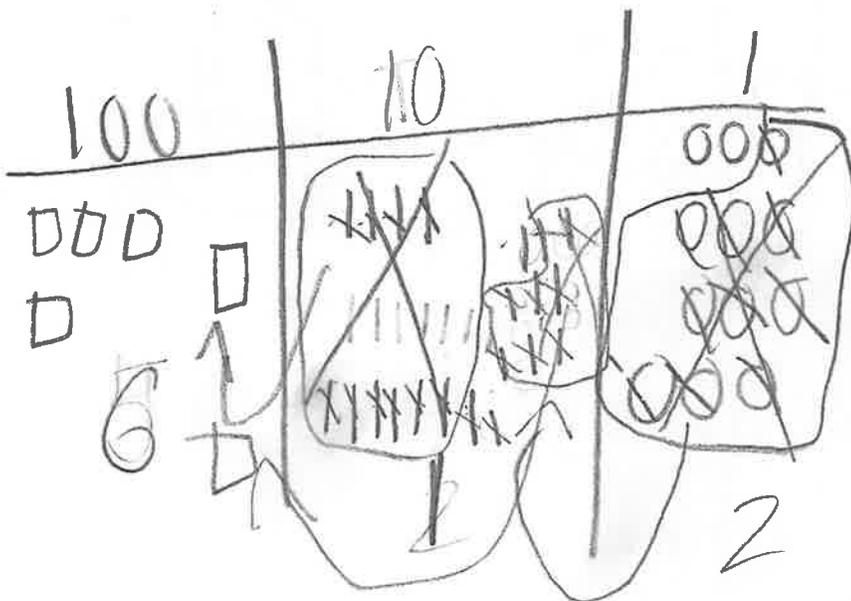


### Problem Solving Task

Ms. Yu likes to collect different coins from around the world. She collected 343 last year. This year she has collected 179. How many coins does she have in total? Write a number sentence and solve using **base ten blocks** and the **algorithm**.

#### Base Ten Blocks

$$343 + 179 = \textcircled{522}$$



#### Algorithm

$$\begin{array}{r} 343 \\ + 179 \\ \hline \textcircled{522} \end{array}$$

# Discussion Problems

1. A hungry shark was stalking three schools of fish. One school had 367 fish. The second school had 189 fish. How many fish were there in all? Write a number sentence and solve using base ten blocks and the algorithm.

$$367 + 189 = 556$$

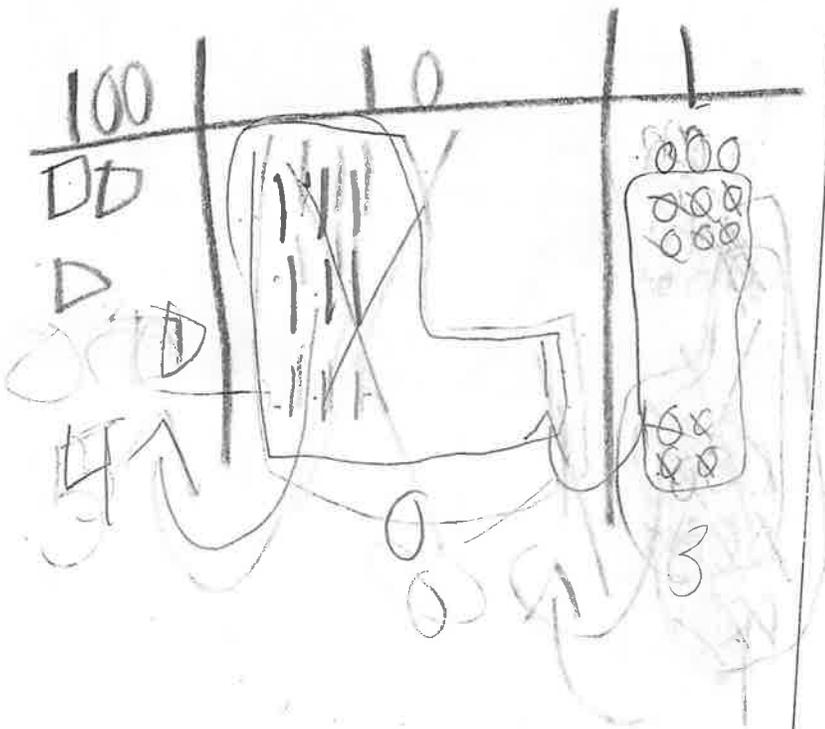
Base Ten Blocks	Algorithm

2. Ms. Stacker made up a lot of dances. She created 369 dances in September and 34 dances in October. How many dances did she create? Write a number sentence and solve using base ten blocks and the algorithm.

$$369 + 34 = 403$$

Base Ten Blocks

Algorithm



$$\begin{array}{r}
 \phantom{0} \overset{1}{3} \overset{1}{6} \overset{1}{9} \\
 + \phantom{0} \phantom{0} \phantom{0} \overset{1}{3} \overset{1}{4} \\
 \hline
 \phantom{0} \phantom{0} \phantom{0} \overset{1}{4} \overset{1}{0} \overset{1}{3}
 \end{array}$$

13  
 10 + 3 ones  
 13 - 10 = 3

**Discussion Problems (continued)**

2nd Grade

Directions - Solve the following problems using base ten blocks and the algorithm.

**287 + 214 = ?**

Base Ten Blocks	Algorithm

**365 + 279 = ?**

Base Ten Blocks	Algorithm

### Exit Ticket

In Antarctica last year, they had 257 inches of snowfall in January and 286 inches in February. How many inches of snowfall did they have in January and February? Write a number sentence and solve using **base ten blocks** and the **algorithm**.

Base Ten Blocks	Algorithm
<p style="text-align: center; font-size: 1.2em;"><math>257 + 286 = ?</math></p> <p style="text-align: center; font-size: 1.5em; border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;">543</p> 	$  \begin{array}{r}  \overset{1}{2} \overset{1}{5} 7 \\  + 286 \\  \hline  \textcircled{543}  \end{array}  $ <p style="margin-left: 150px;">13 ones  <math>\uparrow</math>          10 ones  <math>13 - 10 = 3</math></p>



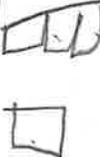
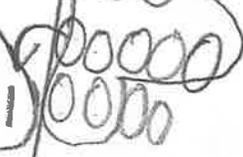
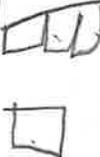
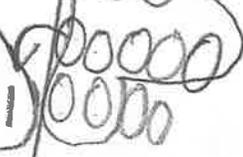
Scholar: yoheilin

Date: \_\_\_\_\_

## Problem Solving Task

Ms. Yu likes to collect different coins from around the world. She collected 343 last year. This year she has collected 179. How many coins does she have in total? Write a number sentence and solve using **base ten blocks** and the **algorithm**.

$$343 + 179 = \underline{\quad}$$

<u>Base Ten Blocks</u>			<u>Algorithm</u>								
<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> <p>100</p>  </div> <div style="text-align: center;"> <p>10</p>  </div> <div style="text-align: center;"> <p>1</p>  </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> <p>5</p>  </div> <div style="text-align: center;"> <p>2</p>  </div> <div style="text-align: center;"> <p>2</p>  </div> </div>	<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> <p>3</p>  </div> <div style="text-align: center;"> <p>4</p>  </div> <div style="text-align: center;"> <p>3</p>  </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> <p>1</p>  </div> <div style="text-align: center;"> <p>7</p>  </div> <div style="text-align: center;"> <p>9</p>  </div> </div>	<div style="text-align: center;"> <p>+</p> </div> <table style="margin: auto; border-collapse: collapse;"> <tr> <td style="border-right: 1px solid black; padding: 0 10px;">3</td> <td style="border-right: 1px solid black; padding: 0 10px;">4</td> <td style="padding: 0 10px;">3</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 0 10px;">1</td> <td style="border-right: 1px solid black; padding: 0 10px;">7</td> <td style="padding: 0 10px;">9</td> </tr> <tr style="border-top: 1px solid black;"> <td style="border-right: 1px solid black; padding: 0 10px;">4</td> <td style="border-right: 1px solid black; padding: 0 10px;">2</td> <td style="padding: 0 10px;">2</td> </tr> </table> <div style="text-align: center;"> <p>12</p> <p>52</p> </div>	3	4	3	1	7	9	4	2	2
3	4	3									
1	7	9									
4	2	2									

# Discussion Problems

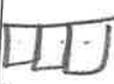
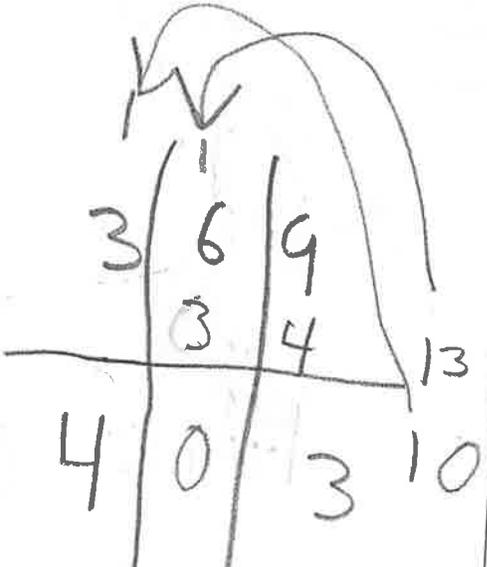
1. A hungry shark was stalking three schools of fish. One school had 367 fish. The second school had 189 fish. How many fish were there in all? Write a number sentence and solve using base ten blocks and the algorithm.

$367 + 189 = \underline{\hspace{2cm}}$

Base Ten Blocks			Algorithm
			$  \begin{array}{r}  367 \\  + 189 \\  \hline  556  \end{array}  $
5	5	<del>7</del> 6	5 5 6

2. Ms. Stacker made up a lot of dances. She created 369 dances in September and 34 dances in October. How many dances did she create? Write a number sentence and solve using base ten blocks and the algorithm.

$$369 + 34 = 403$$

Base Ten Blocks			Algorithm
100 	10 	1 	
4	0	3	

Discussion Problems (continued)

Directions - Solve the following problems using base ten blocks and the algorithm.

$287 + 214 = ?$

Base Ten Blocks			Algorithm
	+		

$365 + 279 = ?$   
644

Base Ten Blocks			Algorithm
	+		

Name: Yoheilyn

Date: \_\_\_\_\_

### Exit Ticket

In Antarctica last year, they had 257 inches of snowfall in January and 286 inches in February. How many inches of snowfall did they have in January and February? Write a number sentence and solve using **base ten blocks** and the **algorithm**.

$286 + 257 = \underline{543}$

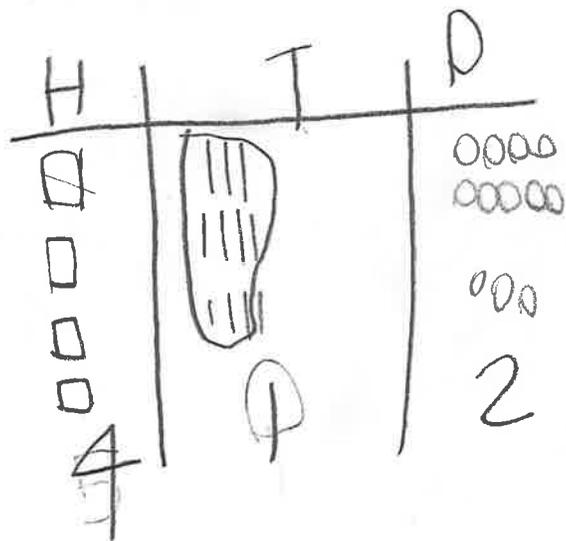
Base Ten Blocks	Algorithm
<p>5   4   3</p>	$  \begin{array}{r}  257 \\  + 286 \\  \hline  543  \end{array}  $ <p> <math>2 + 2 = 4</math>  <math>2 + 2 + 1 = 5</math> </p>



Problem Solving Task

Ms. Yu likes to collect different coins from around the world. She collected 343 last year. This year she has collected 179. How many coins does she have in total? Write a number sentence and solve using **base ten blocks** and the **algorithm**.

$$343 + 179 = \triangle$$

Base Ten BlocksAlgorithm

$$\begin{array}{r} 343 + \\ + \\ \hline \end{array}$$

# Discussion Problems

1. A hungry shark was stalking three schools of fish. One school had 367 fish. The second school had 189 fish. How many fish were there in all? Write a number sentence and solve using base ten blocks and the algorithm.

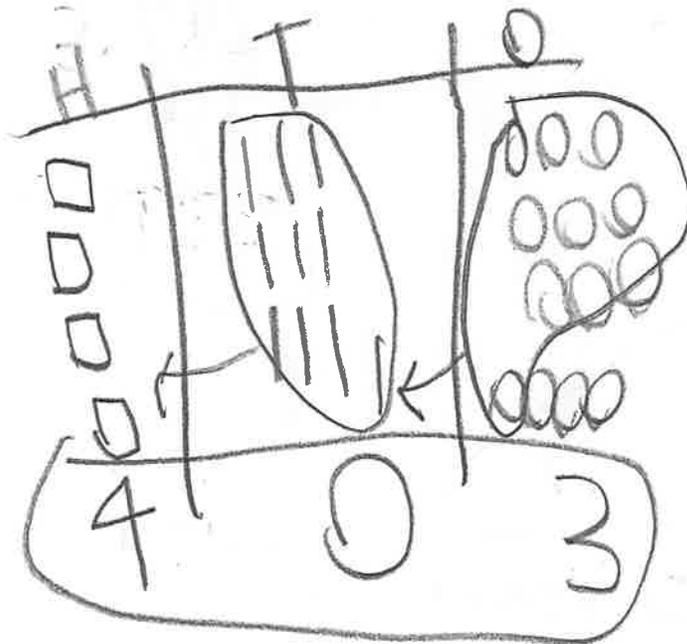
$$367 + 189 = \Delta$$

Base Ten Blocks	Algorithm
	$  \begin{array}{r}  367 \\  + 189 \\  \hline  556  \end{array}  $

2. Ms. Stacker made up a lot of dances. She created 369 dances in September and 34 dances in October. How many dances did she create? Write a number sentence and solve using base ten blocks and the algorithm.

$$369 + 34 = \triangle$$

**Base Ten Blocks**



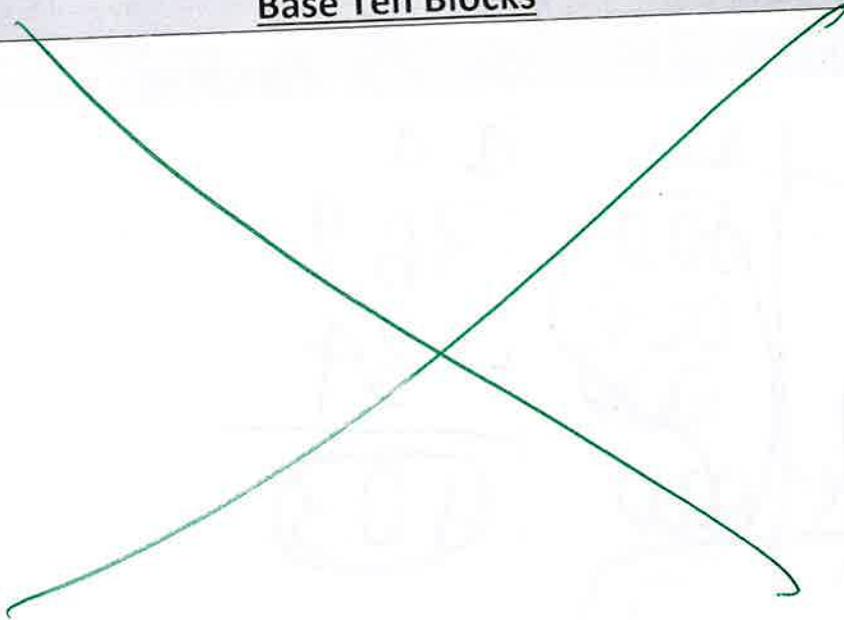
**Algorithm**

$$\begin{array}{r} 11 \\ 369 \\ + 34 \\ \hline 403 \end{array}$$

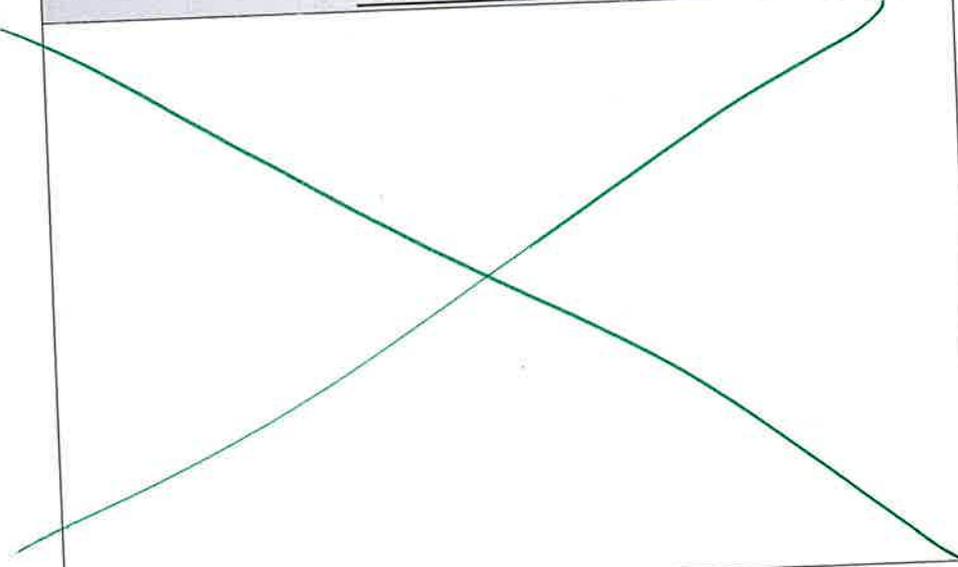
Discussion Problems (continued)

Directions - Solve the following problems using base ten blocks and the algorithm.

$287 + 214 = ?$

<u>Base Ten Blocks</u>	<u>Algorithm</u>
	$  \begin{array}{r}  1 \\  287 \\  + 214 \\  \hline  501  \end{array}  $

$365 + 279 = ?$

<u>Base Ten Blocks</u>	<u>Algorithm</u>
	$  \begin{array}{r}  1 \\  365 \\  + 279 \\  \hline  644  \end{array}  $

Name: Noah

Date: \_\_\_\_\_

Exit Ticket

In Antarctica last year, they had 257 inches of snowfall in January and 286 inches in February. How many inches of snowfall did they have in January and February? Write a number sentence and solve using **base ten blocks** and the **algorithm**.

<u>Base Ten Blocks</u>	<u>Algorithm</u>
	$  \begin{array}{r}  257 \\  + 286 \\  \hline  543  \end{array}  $ $  \begin{array}{r}  1 \\  286 \\  + 257 \\  \hline  543  \end{array}  $

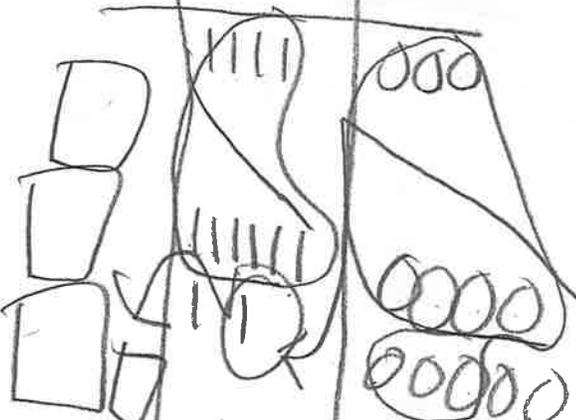
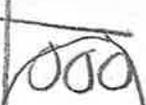
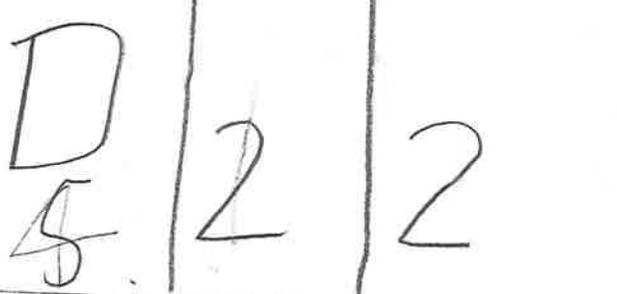
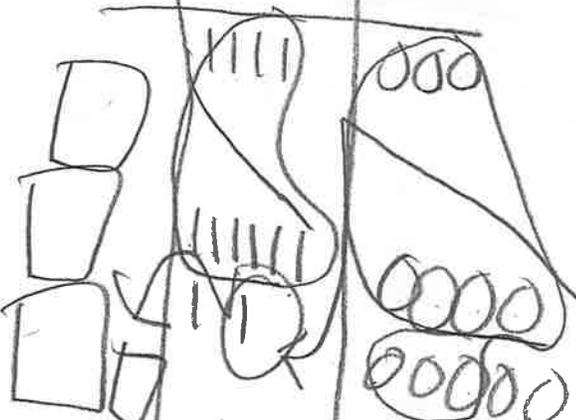
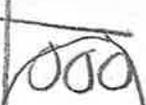
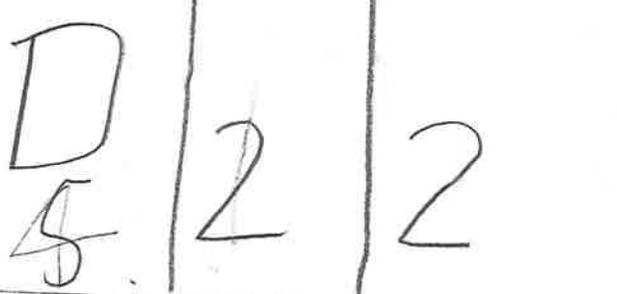
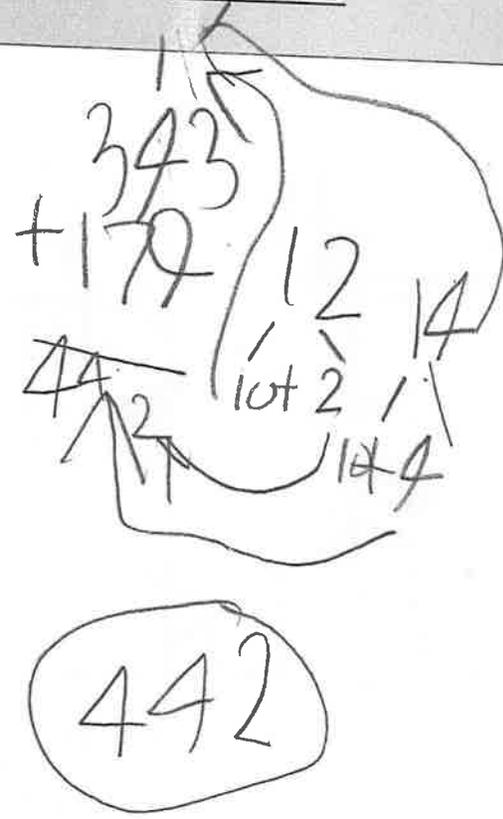
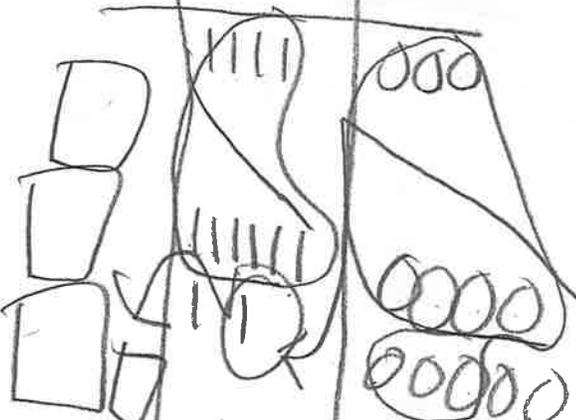
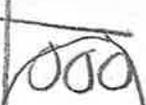
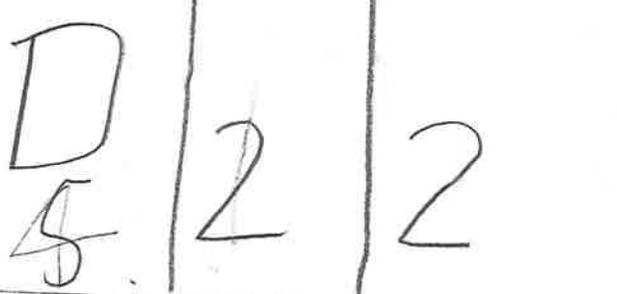


Scholar: MONROE

Date: \_\_\_\_\_

## Problem Solving Task

Ms. Yu likes to collect different coins from around the world. She collected 343 last year. This year she has collected 179. How many coins does she have in total? Write a number sentence and solve using **base ten blocks** and the **algorithm**.

<u>Base Ten Blocks</u>	<u>Algorithm</u>									
<div style="text-align: center; margin-bottom: 10px;"> <math>343 + 179 = 522</math> </div> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border-right: 1px solid black; text-align: center; padding: 5px;">H</td> <td style="border-right: 1px solid black; text-align: center; padding: 5px;">T</td> <td style="text-align: center; padding: 5px;">O</td> </tr> <tr> <td style="border-right: 1px solid black; text-align: center; padding: 5px;">  </td> <td style="border-right: 1px solid black; text-align: center; padding: 5px;">  </td> <td style="text-align: center; padding: 5px;">  </td> </tr> <tr> <td style="border-right: 1px solid black; text-align: center; padding: 5px;">  </td> <td style="border-right: 1px solid black; text-align: center; padding: 5px;"> <p style="font-size: 2em;">2</p> </td> <td style="text-align: center; padding: 5px;"> <p style="font-size: 2em;">2</p> </td> </tr> </table>	H	T	O					<p style="font-size: 2em;">2</p>	<p style="font-size: 2em;">2</p>	<div style="text-align: center; margin-bottom: 20px;"> <math>343 + 179 = 522</math> </div> 
H	T	O								
										
	<p style="font-size: 2em;">2</p>	<p style="font-size: 2em;">2</p>								

# Discussion Problems

1. A hungry shark was stalking three schools of fish. One school had 367 fish. The second school had 189 fish. How many fish were there in all? Write a number sentence and solve using base ten blocks and the algorithm.

Base Ten Blocks	Algorithm
<p style="text-align: center;"><math>367 + 189 =</math></p> <p style="text-align: center;">H      T      O</p>	<p style="text-align: center;"><math>367 + 189 =</math></p> <p style="text-align: center;"><del>367</del></p> <p style="text-align: center;">556</p> <p style="text-align: center;">16</p> <p style="text-align: center;">10 + 6</p>

2. Ms. Stacker made up a lot of dances. She created 369 dances in September and 34 dances in October. How many dances did she create? Write a number sentence and solve using base ten blocks and the algorithm.

**Base Ten Blocks**

$369 + 34 = 403$

**Algorithm**

$$\begin{array}{r}
 369 \\
 + 34 \\
 \hline
 403
 \end{array}$$

$$\begin{array}{r}
 369 \\
 + 34 \\
 \hline
 403
 \end{array}$$

$$\begin{array}{r}
 369 \\
 + 34 \\
 \hline
 403
 \end{array}$$

Discussion Problems (continued)

Directions - Solve the following problems using base ten blocks and the algorithm.

$287 + 214 = ?$

Base Ten Blocks	Algorithm
	$\begin{array}{r} 287 \\ + 214 \\ \hline 501 \end{array}$

$365 + 279 = ?$

Base Ten Blocks	Algorithm
Empty space for student work	Empty space for student work

Name: Munroe

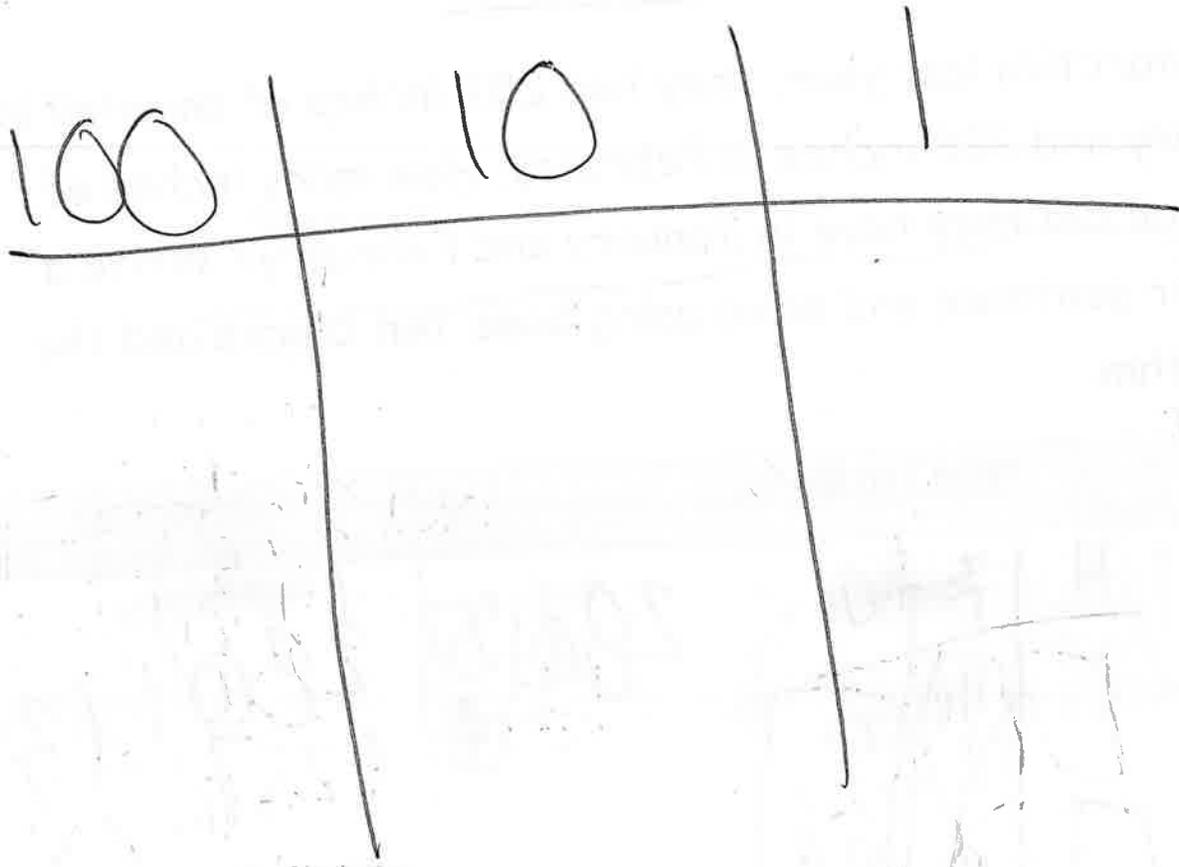
Date: \_\_\_\_\_

### Exit Ticket

In Antarctica last year, they had 257 inches of snowfall in January and 286 inches in February. How many inches of snowfall did they have in January and February? Write a number sentence and solve using **base ten blocks** and the **algorithm**.

Base Ten Blocks	Algorithm
<p>Hand-drawn base ten blocks representing the sum of 286 and 257. The blocks are arranged in three columns: hundreds, tens, and ones. The hundreds column contains 4 blocks, the tens column contains 13 blocks, and the ones column contains 3 blocks. The tens and ones columns are circled together, indicating a regrouping of 10 tens and 3 ones into 1 hundred and 3 tens.</p>	<p>Handwritten number sentence: <math>286 + 257 = 543</math></p> <p>Handwritten algorithm:</p> $\begin{array}{r} 286 \\ + 257 \\ \hline 543 \end{array}$ <p>The result 543 is written to the right of the algorithm, with the 4 in the tens place and 3 in the ones place circled.</p>

$$286 + 257 = ?$$



$$\begin{array}{r} 286 \\ + 257 \\ \hline \end{array}$$

3

Scholar: B

Date: \_\_\_\_\_

## Problem Solving Task

Ms. Yu likes to collect different coins from around the world. She collected 343 last year. This year she has collected 179. How many coins does she have in total? Write a number sentence and solve using base ten blocks and the algorithm.

~~343~~ 343 + 179 = \_\_\_\_\_

<u>Base Ten Blocks</u>	<u>Algorithm</u>
<div style="display: flex; justify-content: space-around; font-size: 24px; margin-bottom: 10px;"> <span>100</span> <span>10</span> <span>1</span> </div>	$  \begin{array}{r}  343 \\  + 179 \\  \hline  522  \end{array}  $ <div style="margin-left: 150px; text-align: center;"> <math>  \begin{array}{r}  12 \\  \wedge \\  10 + 2  \end{array}  </math> </div>

# Discussion Problems

1. A hungry shark was stalking three schools of fish. One school had 367 fish. The second school had 189 fish. How many fish were there in all? Write a number sentence and solve using base ten blocks and the algorithm.

$$367 + 189 = \underline{\quad?}$$

Base Ten Blocks	Algorithm
	$\begin{array}{r} 367 \\ + 189 \\ \hline 556 \end{array}$

2. Ms. Stacker made up a lot of dances. She created 369 dances in September and 34 dances in October. How many dances did she create? Write a number sentence and solve using base ten blocks and the algorithm.

Base Ten Blocks	Algorithm
<p><math>369 + 34 = \underline{\quad}</math></p> <p>4      0      3</p>	<p><math display="block">\begin{array}{r} 369 \\ + 34 \\ \hline 403 \end{array}</math></p>

Discussion Problems (continued)

Directions - Solve the following problems using base ten blocks and the algorithm.

$287 + 214 = ?$

Base Ten Blocks	Algorithm
	$\begin{array}{r} 11 \\ 287 \\ +214 \\ \hline 501 \end{array}$

$365 + 279 = ?$

Base Ten Blocks	Algorithm
	$\begin{array}{r} 11 \\ 365 \\ +279 \\ \hline 644 \end{array}$

Name: B

Date: \_\_\_\_\_

Exit Ticket

In Antarctica last year, they had 257 inches of snowfall in January and 286 inches in February. How many inches of snowfall did they have in January and February? Write a number sentence and solve using **base ten blocks** and the **algorithm**.

<u>Base Ten Blocks</u>	<u>Algorithm</u>
<p style="text-align: center;"><math>286 + 257 = ?</math></p>	$\begin{array}{r} 11 \\ 286 \\ +257 \\ \hline 542 \end{array}$

$$340 + 289 = \text{---}$$

baseten

100	10	1
	<del>XX</del>	
	<del>XXXX</del>	0000000
	<del>XX</del>	00 9

$$506 + 110 =$$

algorithm

Scholar: Greyshe is

Date: \_\_\_\_\_

### Problem Solving Task

Ms. Yu likes to collect different coins from around the world. She collected 343 last year. This year she has collected 179. How many coins does she have in total? Write a number sentence and solve using **base ten blocks** and the **algorithm**.

$$343 + 179 = \underline{\quad}$$

<u>Base Ten Blocks</u>	<u>Algorithm</u>

# Discussion Problems

1. A hungry shark was stalking three schools of fish. One school had 367 fish. The second school had 189 fish. How many fish were there in all? Write a number sentence and solve using base ten blocks and the algorithm.

$$367 + 189 = \underline{\quad}$$

Base Ten Blocks <span style="float: right;">(556)</span>	Algorithm <span style="float: right;">(556)</span>
	$  \begin{array}{r}  & & 1 & 1 & & \\  & & 3 & 6 & 7 & \\  + & & 1 & 8 & 9 & \\  \hline  & 5 & 5 & 6 & & \\  \hline  \end{array}  $



Discussion Problems (continued)

Directions - Solve the following problems using base ten blocks and the algorithm.

$287 + 214 = ?$

Base Ten Blocks			Algorithm
100	10	1	
			$\begin{array}{r} 11 \\ 214 \\ + 287 \\ \hline \end{array}$
			$\textcircled{501}$

$365 + 279 = ?$

Base Ten Blocks			Algorithm
100	10	1	
			$\begin{array}{r} + \\ \hline \end{array}$

Name: Greysheis

Date: \_\_\_\_\_

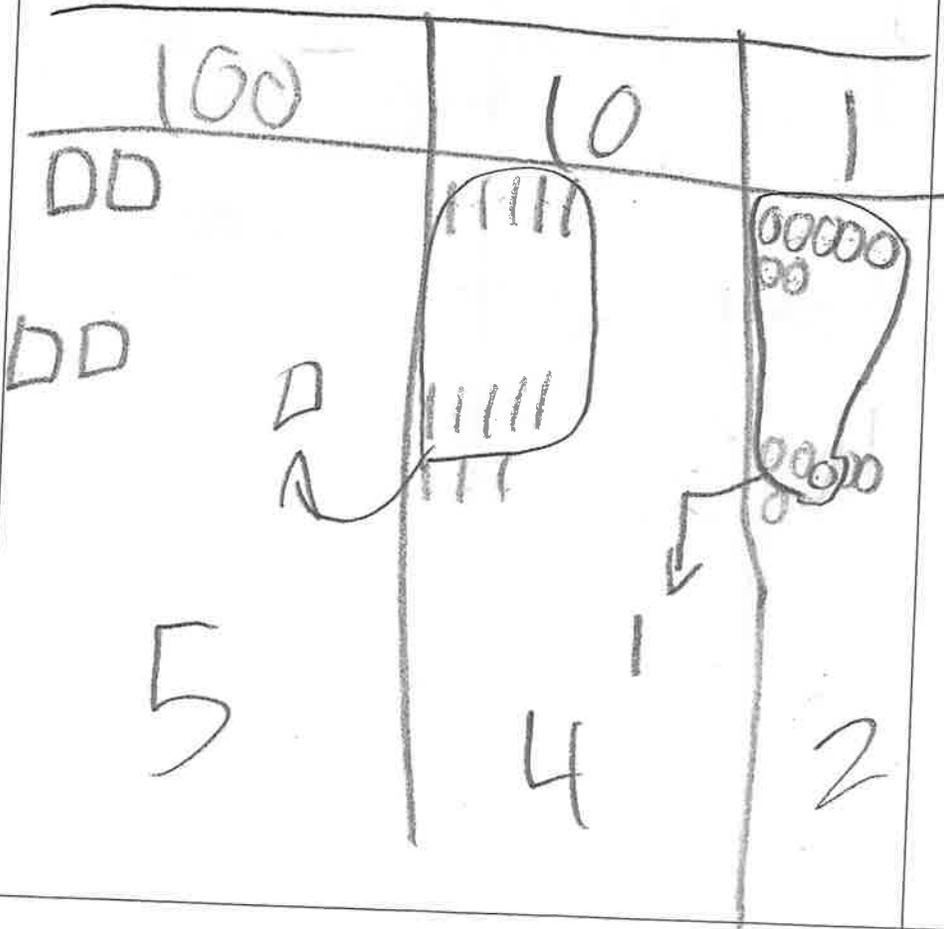
### Exit Ticket

In Antarctica last year, they had 257 inches of snowfall in January and 286 inches in February. How many inches of snowfall did they have in January and February? Write a number sentence and solve using **base ten blocks** and the **algorithm**.

$257 + 286 = \underline{\hspace{2cm}}$

Base Ten Blocks

Algorithm

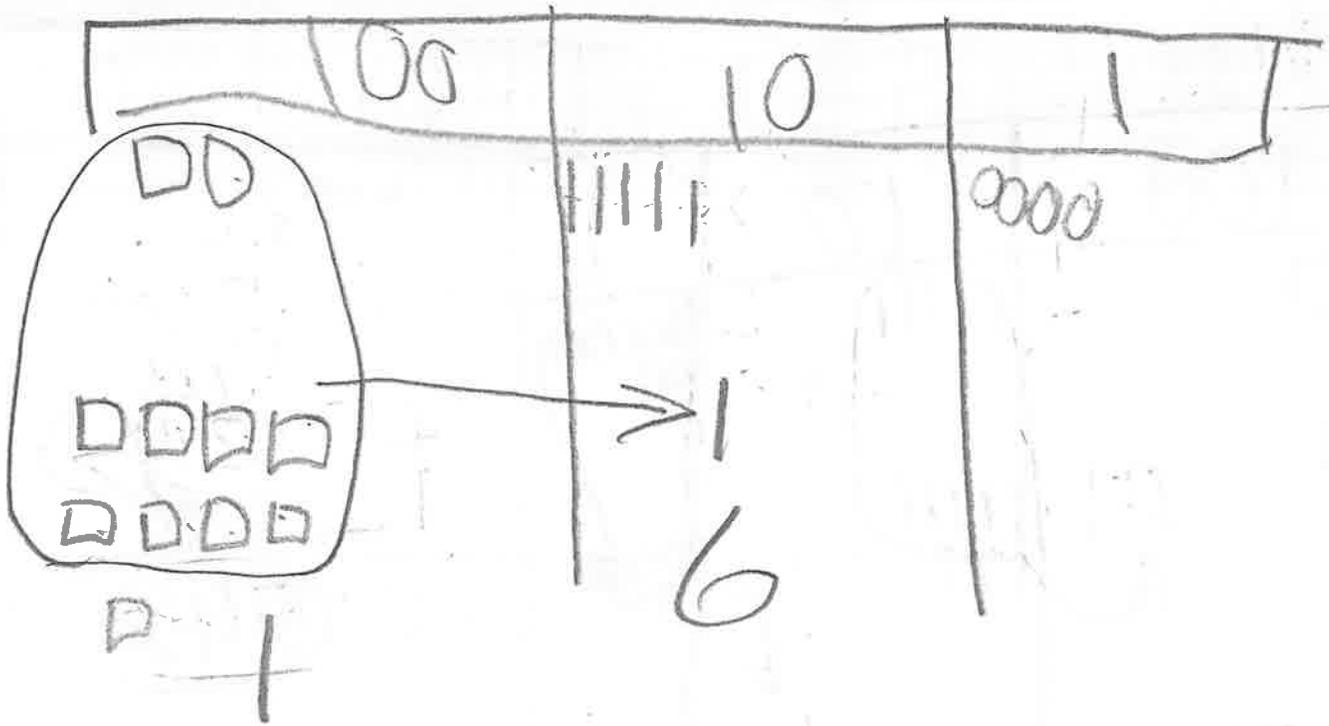


$$\begin{array}{r}
 + \quad 257 \\
 \quad 286 \\
 \hline
 \textcircled{542}
 \end{array}$$

$$254 + 967 = \underline{\quad}$$

Exit Ticket

In winter from last year, there had 257 inches of snowfall in January and 258 inches in February. How many inches of snowfall did they have in January and February? Write a number sentence and label each part. Use blocks and the algorithm.





# Discussion Problems

1. A hungry shark was stalking three schools of fish. One school had 367 fish. The second school had 189 fish. How many fish were there in all? Write a number sentence and solve using base ten blocks and the algorithm.

$$367 + 189 = 556$$

Base Ten Blocks	Algorithm
	$  \begin{array}{r}  367 \\  + 189 \\  \hline  556  \end{array}  $

2. Ms. Stacker made up a lot of dances. She created 369 dances in September and 34 dances in October. How many dances did she create? Write a number sentence and solve using base ten blocks and the algorithm.

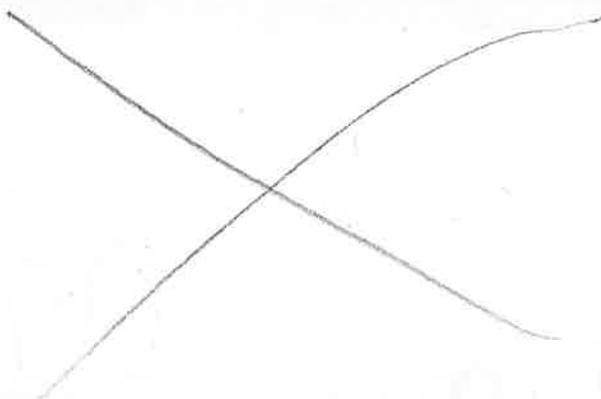
$369 + 34 = \underline{\hspace{2cm}}$

Base Ten Blocks	Algorithm
<p>The diagram shows a place value chart with columns for Hundreds (H), Tens (T), and Ones (O).          - Hundreds column: 3 blocks          - Tens column: 6 rods          - Ones column: 9 units          - Additional blocks: 3 rods and 4 units are added to the Tens and Ones columns respectively.          - A ten rod from the Tens column is broken down into 10 ones units, with 1 ten rod moved to the Hundreds column.          - The final result is 403, circled.</p>	<p>Handwritten algorithm:  <math display="block">\begin{array}{r} 369 \\ + 34 \\ \hline 403 \end{array}</math>         Arrows indicate carrying 1 from the ones place to the tens place, and 1 from the tens place to the hundreds place. The result 403 is circled.</p>

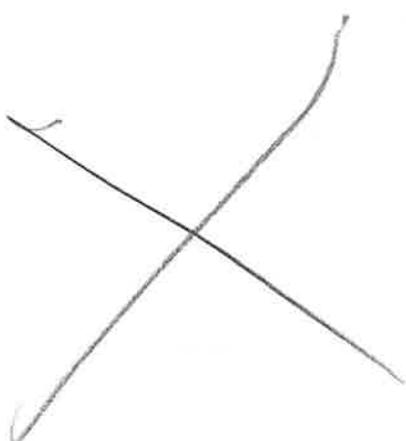
Discussion Problems (continued)

Directions - Solve the following problems using base ten blocks and the algorithm.

$$287 + 214 = ?$$

<u>Base Ten Blocks</u>	<u>Algorithm</u>
	

$$365 + 279 = ?$$

<u>Base Ten Blocks</u>	<u>Algorithm</u>
	

Name: Helena

Date: \_\_\_\_\_

Exit Ticket

In Antarctica last year, they had 257 inches of snowfall in January and 286 inches in February. How many inches of snowfall did they have in January and February? Write a number sentence and solve using **base ten blocks** and the **algorithm**.

$$257 + 286 = \underline{543}$$

<u>Base Ten Blocks</u>	<u>Algorithm</u>

$$465 + 226 = ?$$

$$\begin{array}{r} \phantom{0} \\ + 465 \\ + 226 \\ \hline 691 \end{array}$$

Scholar: Nathan

Date: \_\_\_\_\_

### Problem Solving Task

Ms. Yu likes to collect different coins from around the world. She collected 343 last year. This year she has collected 179. How many coins does she have in total? Write a number sentence and solve using **base ten blocks** and the **algorithm**.

<u>Base Ten Blocks</u>	<u>Algorithm</u>
<p><math>179 + 343 = \underline{522}</math></p>	

# Discussion Problems

1. A hungry shark was stalking three schools of fish. One school had 367 fish. The second school had 189 fish. How many fish were there in all? Write a number sentence and solve using base ten blocks and the algorithm.

$$367 + 189 = 546$$

<u>Base Ten Blocks</u>	<u>Algorithm</u>
	$  \begin{array}{r}  & 1 & 1 & & \\  & 3 & 6 & 7 & \\  + & 1 & 8 & 9 & \\  \hline  5 & 5 & 6 & &   \end{array}  $

2. Ms. Stacker made up a lot of dances. She created 369 dances in September and 34 dances in October. How many dances did she create? Write a number sentence and solve using base ten blocks and the algorithm.

Base Ten Blocks	Algorithm

**Discussion Problems (continued)**

Directions - Solve the following problems using base ten blocks and the algorithm.

**287 + 214 = ?**

Base Ten Blocks	Algorithm
	$\begin{array}{r} 44 \\ 287 \\ + 214 \\ \hline 501 \end{array}$

**365 + 279 = ?**

Base Ten Blocks	Algorithm
	$\begin{array}{r} 111 \\ 365 \\ + 279 \\ \hline 644 \end{array}$

Name: Nathan

Date: \_\_\_\_\_

Exit Ticket

In Antarctica last year, they had 257 inches of snowfall in January and 286 inches in February. How many inches of snowfall did they have in January and February? Write a number sentence and solve using **base ten blocks** and the **algorithm**.

<u>Base Ten Blocks</u>	<u>Algorithm</u>
	$\begin{array}{r} 257 \\ + 286 \\ \hline 433 \end{array}$



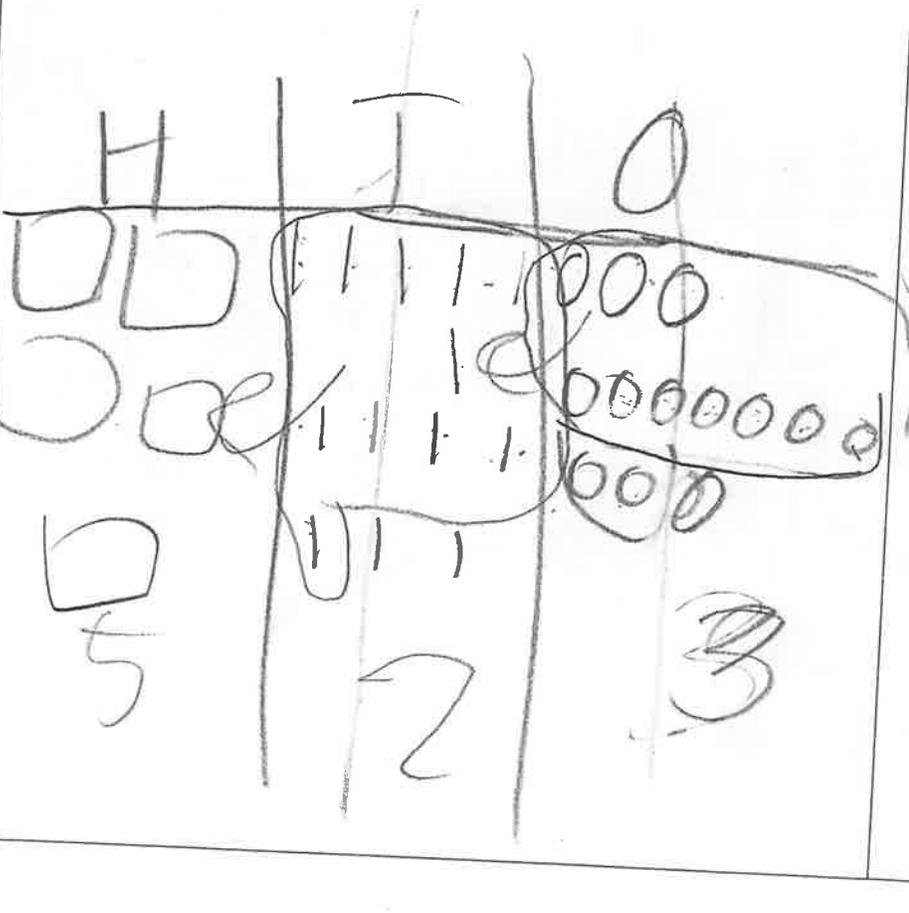
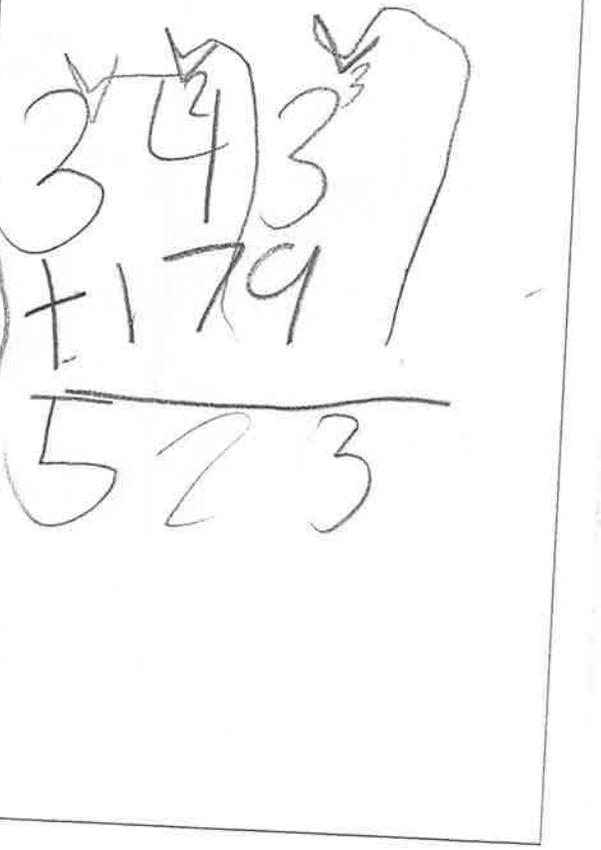
Grade  
Scholar: Rae

Date: \_\_\_\_\_

### Problem Solving Task

Ms. Yu likes to collect different coins from around the world. She collected 343 last year. This year she has collected 179. How many coins does she have in total? Write a number sentence and solve using **base ten blocks** and the **algorithm**.

$$343 + 179 = \underline{\quad}$$

<u>Base Ten Blocks</u>	<u>Algorithm</u>
	

# Discussion Problems

1. A hungry shark was stalking three schools of fish. One school had 367 fish. The second school had 189 fish. How many fish were there in all? Write a number sentence and solve using base ten blocks and the algorithm.

$$367 + 189 = \underline{\quad}$$

Base Ten Blocks	Algorithm
	$  \begin{array}{r}  \phantom{0}1 \phantom{0}1 \\  + 367 \\  + 189 \\  \hline  556  \end{array}  $

2. Ms. Stacker made up a lot of dances. She created 369 dances in September and 34 dances in October. How many dances did she create? Write a number sentence and solve using base ten blocks and the algorithm.

$$369 + 34 = \underline{\quad}$$

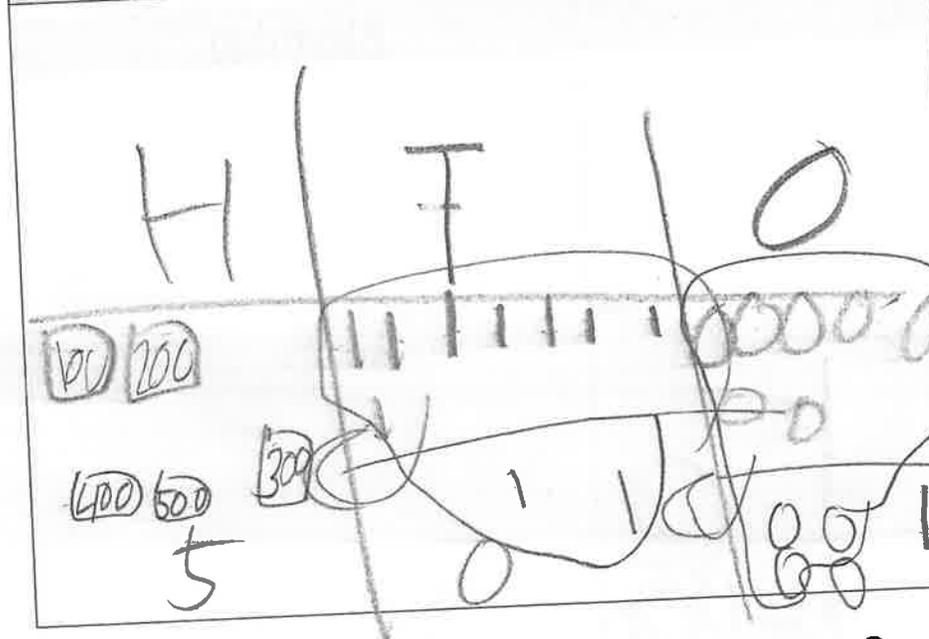
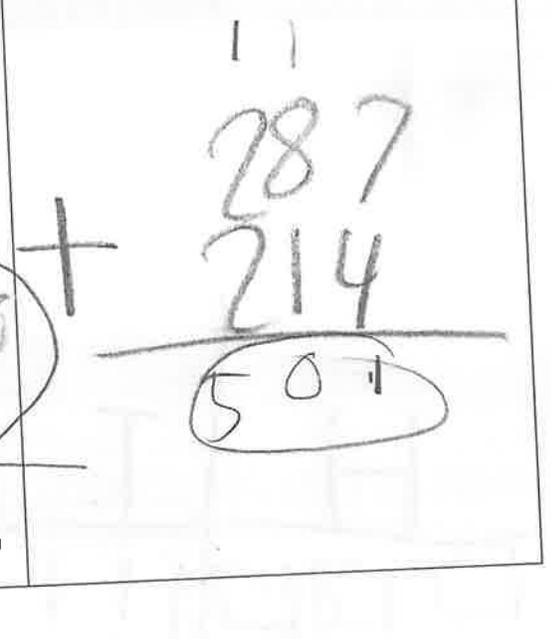
Base Ten Blocks	Algorithm

Ree

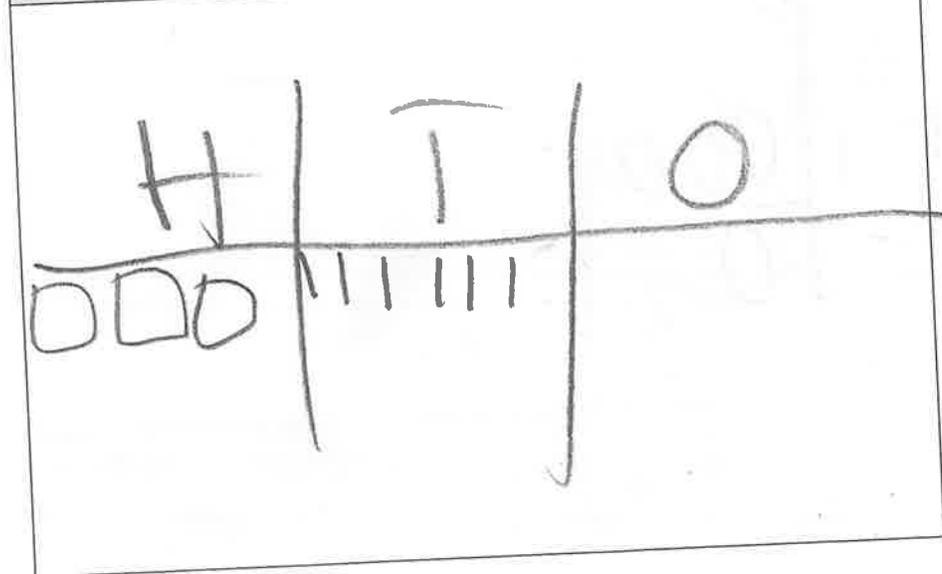
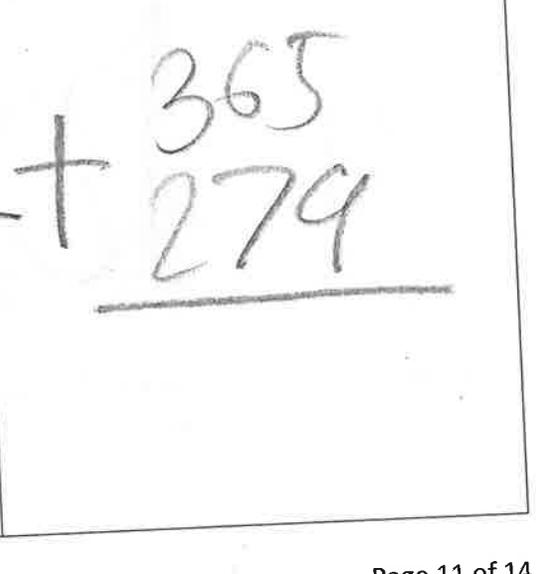
Discussion Problems (continued)

Directions - Solve the following problems using base ten blocks and the algorithm.

$287 + 214 = ?$

Base Ten Blocks	Algorithm
	

$365 + 279 = ?$

Base Ten Blocks	Algorithm
	





Scholar: Andri S-sophie

Date: \_\_\_\_\_

### Problem Solving Task

Ms. Yu likes to collect different coins from around the world. She collected 343 last year. This year she has collected 179. How many coins does she have in total? Write a number sentence and solve using base ten blocks and the algorithm.

$$343 + 179 = \underline{522}$$

Base Ten Blocks		Algorithm
		$\begin{array}{r} 11 \\ 343 \\ + 179 \\ \hline 522 \end{array}$

# Discussion Problems

1. A hungry shark was stalking three schools of fish. One school had 367 fish. The second school had 189 fish. How many fish were there in all? Write a number sentence and solve using base ten blocks and the algorithm.

$$367 + 189$$

Base Ten Blocks	Algorithm

2. Ms. Stacker made up a lot of dances. She created 369 dances in September and 34 dances in October. How many dances did she create? Write a number sentence and solve using base ten blocks and the algorithm.

$$369 + 34 =$$

Base Ten Blocks			Algorithm
H	T	O	$\begin{array}{r} 369 \\ + 34 \\ \hline 403 \end{array}$
4	0	3	

**Discussion Problems (continued)**

Directions - Solve the following problems using base ten blocks and the algorithm.

**287 + 214 = ?**

Base Ten Blocks	Algorithm

**365 + 279 = ?**

Base Ten Blocks	Algorithm

Name: Anais-Sophie

Date: \_\_\_\_\_

### Exit Ticket

In Antarctica last year, they had 257 inches of snowfall in January and 286 inches in February. How many inches of snowfall did they have in January and February? Write a number sentence and solve using **base ten blocks** and the **algorithm**.

$$286 + 257$$

<u>Base Ten Blocks</u>			<u>Algorithm</u>
H	T	O	$\begin{array}{r} 286 \\ +257 \\ \hline 543 \end{array}$
OO		OOOOO	<div style="border: 1px solid black; border-radius: 50%; width: 100px; height: 100px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> <span style="font-size: 2em; font-weight: bold;">543</span> </div>
OO ←		O	
D		OOOOO	
5	1 4	OO	
		3	

$$349 + 964$$

$$\begin{array}{r} 349 \\ + 964 \\ \hline \end{array}$$

$$\begin{array}{r} 349 \\ + 964 \\ \hline 313 \end{array}$$

$$313 + 299$$

$$\begin{array}{r} 11 \\ 313 \\ + 299 \\ \hline 612 \end{array}$$

$$612 + 964$$

$$\begin{array}{r} 612 \\ + 964 \\ \hline 76 \end{array}$$

Scholar: Saikhore

Date: \_\_\_\_\_

## Problem Solving Task

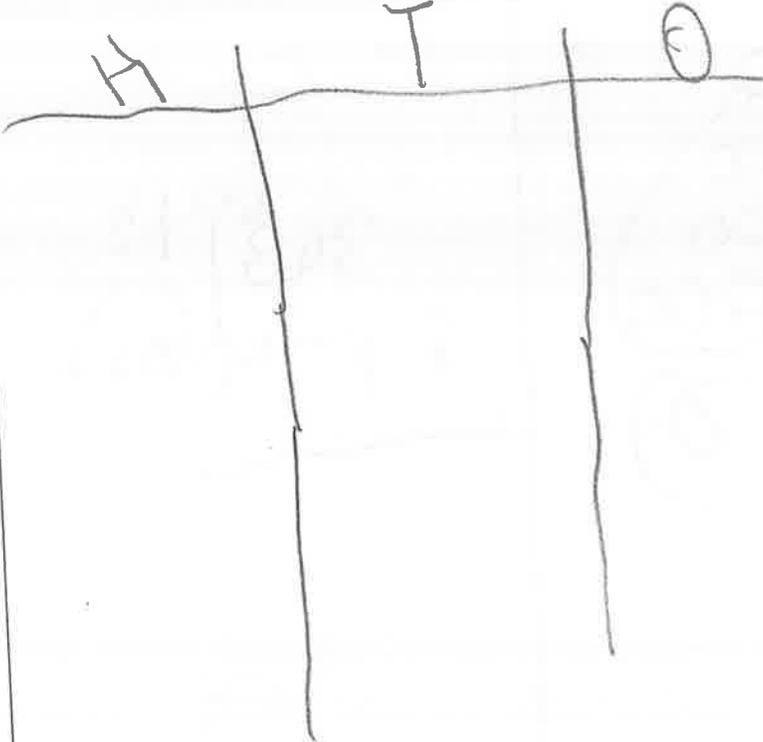
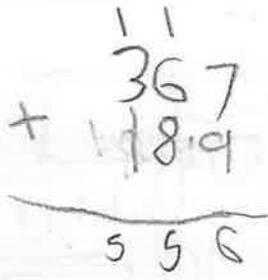
Ms. Yu likes to collect different coins from around the world. She collected 343 last year. This year she has collected 179. How many coins does she have in total? Write a number sentence and solve using **base ten blocks** and the **algorithm**.

<u>Base Ten Blocks</u>	<u>Algorithm</u>
	$  \begin{array}{r}  343 \\  + 179 \\  \hline  522  \end{array}  $

# Discussion Problems

1. A hungry shark was stalking three schools of fish. One school had 367 fish. The second school had 189 fish. How many fish were there in all? Write a number sentence and solve using base ten blocks and the algorithm.

$$367 + 189$$

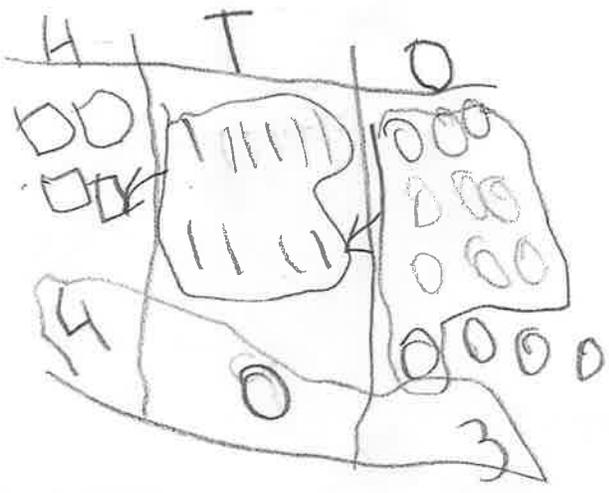
<u>Base Ten Blocks</u>	<u>Algorithm</u>
	

2. Ms. Stacker made up a lot of dances. She created 369 dances in September and 34 dances in October. How many dances did she create? Write a number sentence and solve using base ten blocks and the algorithm.

$$369 + 34$$

Base Ten Blocks

Algorithm



$$\begin{array}{r} 369 \\ + 34 \\ \hline 403 \end{array}$$

Discussion Problems (continued)

Directions - Solve the following problems using base ten blocks and the algorithm.

$287 + 214 = ?$

<u>Base Ten Blocks</u>	<u>Algorithm</u>
	$  \begin{array}{r}  1 \quad 1 \\  287 \\  +214 \\  \hline  512  \end{array}  $

$365 + 279 = ?$

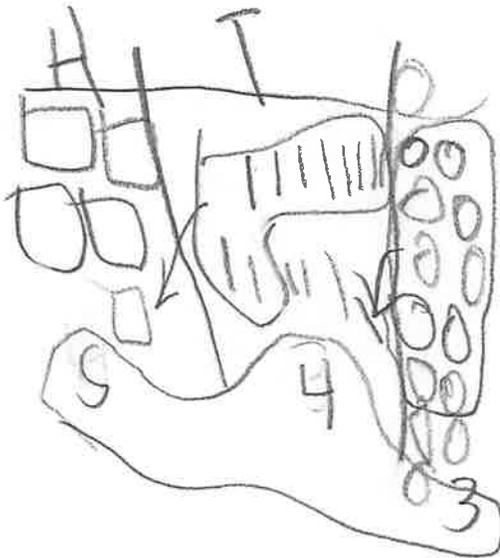
<u>Base Ten Blocks</u>	<u>Algorithm</u>
	$  \begin{array}{r}  1 \quad 1 \\  365 \\  +279 \\  \hline  644  \end{array}  $

Name: Salvatore

Date: \_\_\_\_\_

Exit Ticket

In Antarctica last year, they had 257 inches of snowfall in January and 286 inches in February. How many inches of snowfall did they have in January and February? Write a number sentence and solve using **base ten blocks** and the **algorithm**.

Base Ten BlocksAlgorithm

$$\begin{array}{r} \phantom{0} \phantom{0} \phantom{0} \\ 286 \\ + 257 \\ \hline 543 \end{array}$$



Scholar: Neveah

Date: \_\_\_\_\_

## Problem Solving Task

Ms. Yu likes to collect different coins from around the world. She collected 343 last year. This year she has collected 179. How many coins does she have in total? Write a number sentence and solve using **base ten blocks** and the **algorithm**.

$$179 + 343 = \underline{\quad}$$

<u>Base Ten Blocks</u>	<u>Algorithm</u>
	$  \begin{array}{r}  179 \\  + 343 \\  \hline  522  \end{array}  $

# Discussion Problems

1. A hungry shark was stalking three schools of fish. One school had 367 fish. The second school had 189 fish. How many fish were there in all? Write a number sentence and solve using base ten blocks and the algorithm.

$$367 + 189 = \underline{\quad}$$

Base Ten Blocks	Algorithm
	$  \begin{array}{r}  367 \\  + 189 \\  \hline  556  \end{array}  $

2. Ms. Stacker made up a lot of dances. She created 369 dances in September and 34 dances in October. How many dances did she create? Write a number sentence and solve using base ten blocks and the algorithm.

$369 + 34 = \underline{\quad}$

Base Ten Blocks	Algorithm
	$  \begin{array}{r}  369 \\  + 34 \\  \hline  403  \end{array}  $

Discussion Problems (continued)

Directions - Solve the following problems using base ten blocks and the algorithm.

$287 + 214 = ?$

<u>Base Ten Blocks</u>	<u>Algorithm</u>
	

$365 + 279 = ?$

<u>Base Ten Blocks</u>	<u>Algorithm</u>
	

Name: Nevden

Date: \_\_\_\_\_

### Exit Ticket

In Antarctica last year, they had 257 inches of snowfall in January and 286 inches in February. How many inches of snowfall did they have in January and February? Write a number sentence and solve using **base ten blocks** and the **algorithm**.

$$286 + 257 = \underline{\quad}$$

<u>Base Ten Blocks</u>	<u>Algorithm</u>
	$  \begin{array}{r}  286 \\  + 257 \\  \hline  543  \end{array}  $



Scholar: C

Date: \_\_\_\_\_

### Problem Solving Task

Ms. Yu likes to collect different coins from around the world. She collected 343 last year. This year she has collected 179. How many coins does she have in total?

Write a number sentence and solve using **base ten blocks** and the **algorithm**.

$$343 + 179 = \underline{\quad}$$

<u>Base Ten Blocks</u>	<u>Algorithm</u>
<p>Hand-drawn base ten blocks for 343 + 179. The blocks are arranged in three columns labeled H (Hundreds), T (Tens), and O (Ones). The H column has 3 hundreds blocks. The T column has 4 tens blocks. The O column has 3 ones blocks. A second set of blocks is added: 1 hundred block, 7 tens blocks, and 9 ones blocks. A circled group of 10 ones blocks is shown being traded for 1 ten block. The final counts are written below: H=5, T=2, O=2.</p>	<p>Hand-drawn algorithm for 343 + 179. The numbers are written in a vertical column with place value markers. A horizontal line is drawn under the ones place. The sum 522 is written below the line.</p>

# Discussion Problems

1. A hungry shark was stalking three schools of fish. One school had 367 fish. The second school had 189 fish. How many fish were there in all? Write a number sentence and solve using base ten blocks and the algorithm.

$$367 + 189 = 556$$

Base Ten Blocks	Algorithm

2. Ms. Stacker made up a lot of dances. She created 369 dances in September and 34 dances in October. How many dances did she create? Write a number sentence and solve using base ten blocks and the algorithm.  $369 + 34 =$

Base Ten Blocks	Algorithm
<p>Hand-drawn base ten blocks representing the addition of 369 and 34. The blocks are arranged in columns labeled H (Hundreds), T (Tens), and O (Ones). The hundreds column has 3 blocks, the tens column has 6 blocks, and the ones column has 9 blocks. A separate group of 3 tens blocks and 4 ones blocks is shown below. The final sum is written as 403.</p>	<p>Hand-drawn vertical algorithm for <math>369 + 34</math>. The numbers are stacked: 369 on top and 34 below it. The sum 403 is written at the bottom. Arrows indicate the carrying process: 9 + 4 = 13, so 3 is carried to the tens place; 6 + 3 + 3 = 12, so 1 is carried to the hundreds place; 3 + 0 + 1 = 4. The final sum is 403.</p>

**Discussion Problems (continued)**

Directions - Solve the following problems using base ten blocks and the algorithm.

$287 + 214 = ?$

Base Ten Blocks	Algorithm

$365 + 279 = ?$

Base Ten Blocks	Algorithm

Name: C

Date: \_\_\_\_\_

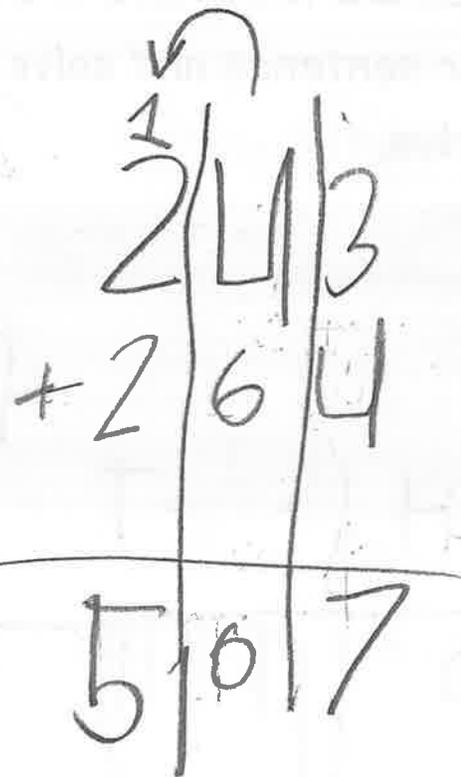
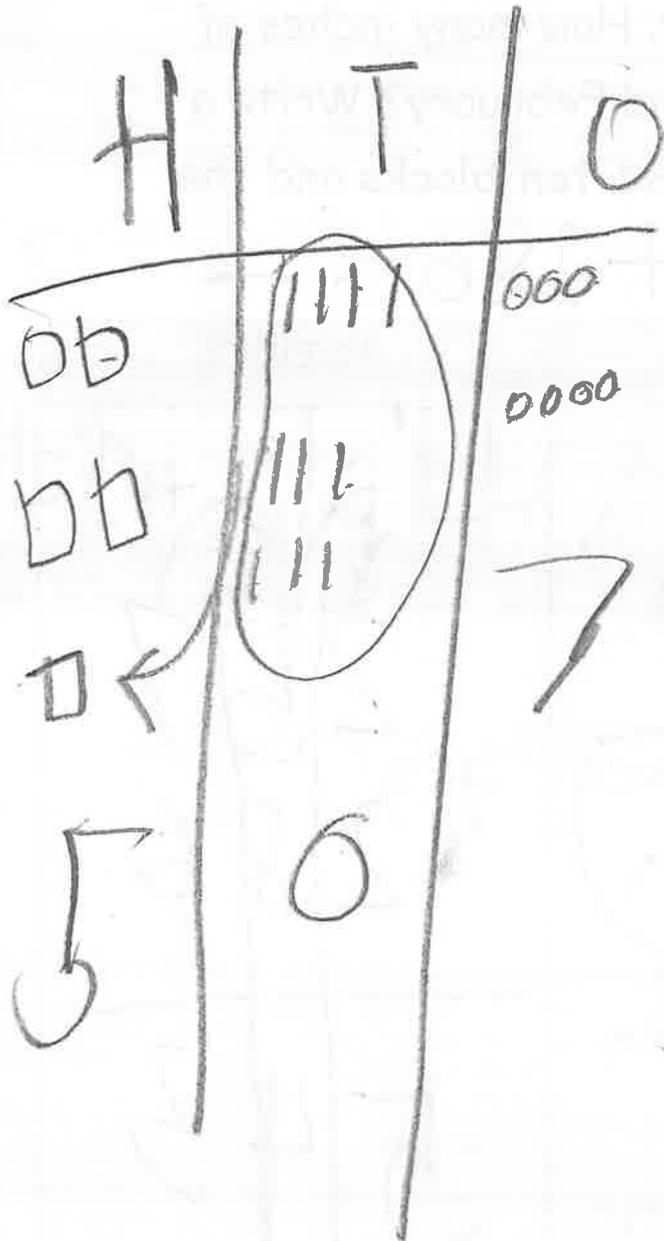
### Exit Ticket

In Antarctica last year, they had 257 inches of snowfall in January and 286 inches in February. How many inches of snowfall did they have in January and February? Write a number sentence and solve using **base ten blocks** and the **algorithm**.

$$257 + 286 = \underline{\quad}$$

<u>Base Ten Blocks</u>	<u>Algorithm</u>
<p>H   T   O</p> <p>5   4   3</p>	$\begin{array}{r} 257 \\ + 286 \\ \hline 543 \end{array}$

$$243 + 264$$



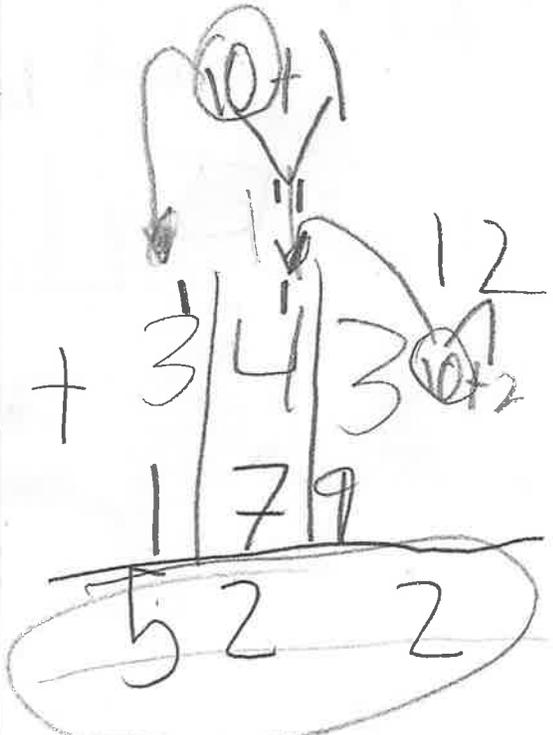
Scholar: Jai'la

Date: \_\_\_\_\_

## Problem Solving Task

Ms. Yu likes to collect different coins from around the world. She collected 343 last year. This year she has collected 179. How many coins does she have in total? Write a number sentence and solve using base ten blocks and the algorithm.

$$343 + 179 = 522$$

<u>Base Ten Blocks</u>			<u>Algorithm</u>
<p>H</p> 	<p>+</p> 	<p>=</p> 	
<div style="border: 1px solid black; border-radius: 50%; width: 60px; height: 60px; margin: 0 auto; display: flex; align-items: center; justify-content: center; font-size: 40px;">5</div>	<div style="border: 1px solid black; border-radius: 50%; width: 60px; height: 60px; margin: 0 auto; display: flex; align-items: center; justify-content: center; font-size: 40px;">2</div>	<div style="border: 1px solid black; border-radius: 50%; width: 60px; height: 60px; margin: 0 auto; display: flex; align-items: center; justify-content: center; font-size: 40px;">2</div>	

# Discussion Problems

1. A hungry shark was stalking three schools of fish. One school had 367 fish. The second school had 189 fish. How many fish were there in all? Write a number sentence and solve using base ten blocks and the algorithm.

Base Ten Blocks	Algorithm
	$\begin{array}{r} 367 \\ + 189 \\ \hline 556 \end{array}$

$367 + 189 = 556$

2. Ms. Stacker made up a lot of dances. She created 369 dances in September and 34 dances in October. How many dances did she create? Write a number sentence and solve using base ten blocks and the algorithm.

$$369 + 34 = \underline{\quad}$$

Base Ten Blocks	Algorithm
<p>4   0   3</p>	$  \begin{array}{r}  1 \quad 1 \\  369 \\  + 34 \\  \hline  403  \end{array}  $

**Discussion Problems (continued)**

Directions - Solve the following problems using base ten blocks and the algorithm.

**287 + 214 = ?**

Base Ten Blocks	Algorithm
	$  \begin{array}{r}  11 \\  + 287 \\  + 214 \\  \hline  501  \end{array}  $

**365 + 279 = ?**

Base Ten Blocks	Algorithm
	$  \begin{array}{r}  11 \\  + 365 \\  + 279 \\  \hline  644  \end{array}  $

Name: \_\_\_\_\_

Sai'la

Date: \_\_\_\_\_

Exit Ticket

In Antarctica last year, they had 257 inches of snowfall in January and 286 inches in February. How many inches of snowfall did they have in January and February? Write a number sentence and solve using **base ten blocks** and the **algorithm**.

$$257 + 286 = 543$$

<u>Base Ten Blocks</u>	<u>Algorithm</u>
<p>100      10      1</p> <p>5      4      3</p>	$  \begin{array}{r}  257 \\  + 286 \\  \hline  543  \end{array}  $

$$23 + 199 = 222$$

$$\begin{array}{r} \overset{1}{+} 23 \\ 199 \\ \hline 222 \end{array}$$

$$533 + 167$$

$$\begin{array}{r} \overset{1}{+} 533 \\ 167 \\ \hline 700 \end{array}$$

$$188 + 199$$

$$\begin{array}{r} \overset{1}{+} 188 \\ 199 \\ \hline 387 \end{array}$$

$$275 + 739$$

$$\begin{array}{r} \overset{1}{+} 275 \\ 739 \\ \hline 1010 \end{array}$$

Scholar: Noelle

Date: \_\_\_\_\_

### Problem Solving Task

Ms. Yu likes to collect different coins from around the world. She collected 343 last year. This year she has collected 179. How many coins does she have in total?

Write a number sentence and solve using base ten blocks and the algorithm.

$$343 + 179 = ?$$

Base Ten Blocks	Algorithm
	$  \begin{array}{r}  343 \\  +179 \\  \hline  522  \end{array}  $ <p>coins</p>

# Discussion Problems

1. A hungry shark was stalking three schools of fish. One school had 367 fish. The second school had 189 fish. How many fish were there in all? Write a number sentence and solve using base ten blocks and the algorithm.

$$367 + 189 = ?$$

Base Ten Blocks	Algorithm

2. Ms. Stacker made up a lot of dances. She created 369 dances in September and 34 dances in October. How many dances did she create? Write a number sentence and solve using base ten blocks and the algorithm.

Base Ten Blocks	Algorithm
<p>Hand-drawn base ten blocks representing the addition of 369 and 34. The blocks are arranged in columns for hundreds, tens, and ones. Three hundreds blocks, six tens rods, and nine ones units are shown. Three tens rods are crossed out and replaced by one hundred block and one ten rod. The final result is shown as four hundreds blocks, zero tens rods, and three ones units.</p>	<p>Handwritten algorithm showing the addition of 369 and 34. A carry of 1 is shown above the 6. The sum 403 is circled. Below it, the final answer "403 dances" is also circled.</p> $\begin{array}{r} 1 \\ 369 \\ + 34 \\ \hline 403 \end{array}$ <p>403 dances</p>

**Discussion Problems (continued)**

Directions - Solve the following problems using base ten blocks and the algorithm.

**287 + 214 = ?**

Base Ten Blocks	Algorithm

**365 + 279 = ?**

Base Ten Blocks	Algorithm

5 3 4

Name: Noelle

Date: \_\_\_\_\_

### Exit Ticket

In Antarctica last year, they had 257 inches of snowfall in January and 286 inches in February. How many inches of snowfall did they have in January and February? Write a number sentence and solve using **base ten blocks** and the **algorithm**.

$257 + 286 = ?$

<u>Base Ten Blocks</u>			<u>Algorithm</u>	
H	T	O	130	$\begin{array}{r} 17 \\ \times 286 \\ \hline \end{array}$
			$\begin{array}{r} 11 \\ 257 \\ +286 \\ \hline 543 \end{array}$	
5	4	3		

Exit Ticket

In 1995, the first year they had 557 orders of snowflakes in January and 588 orders in February. How many more snowflakes did they have in February and January than in January and February?

$$\begin{array}{r} 36 \\ + 588 \\ \hline \end{array}$$

