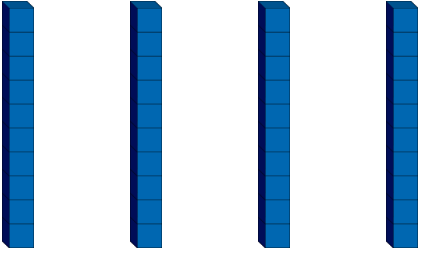

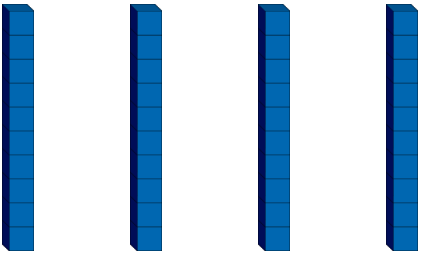
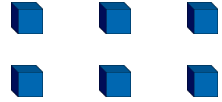


Step 11: Add 2-Digit and 3-Digit Numbers

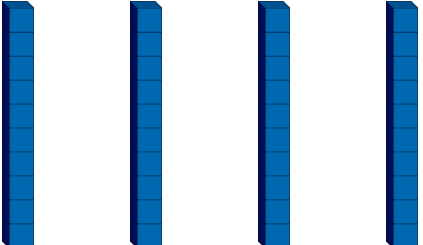

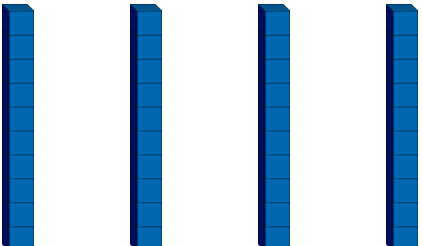
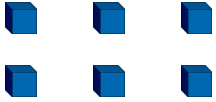
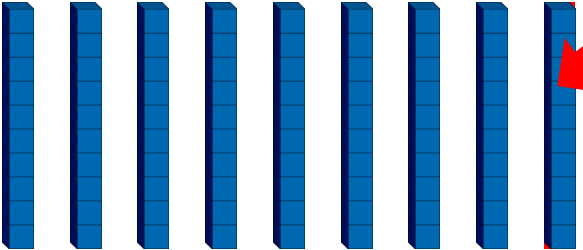
Introduction

Complete the calculation below using Base 10.

T	O
	
	

Introduction

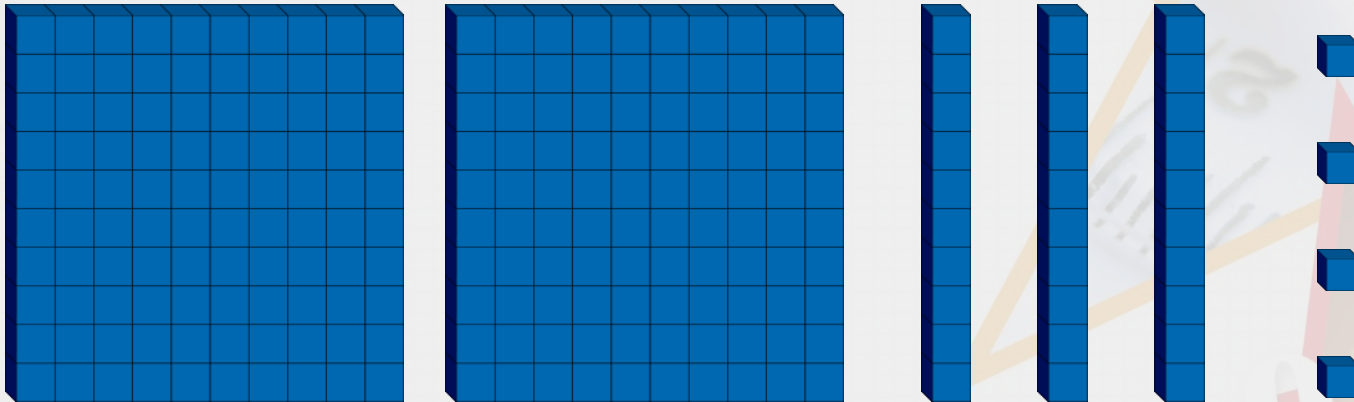
Complete the calculation below using Base 10.

T	O
	
	
	

$$44 + 46 = 90$$

Varied Fluency 1

What number is represented below?



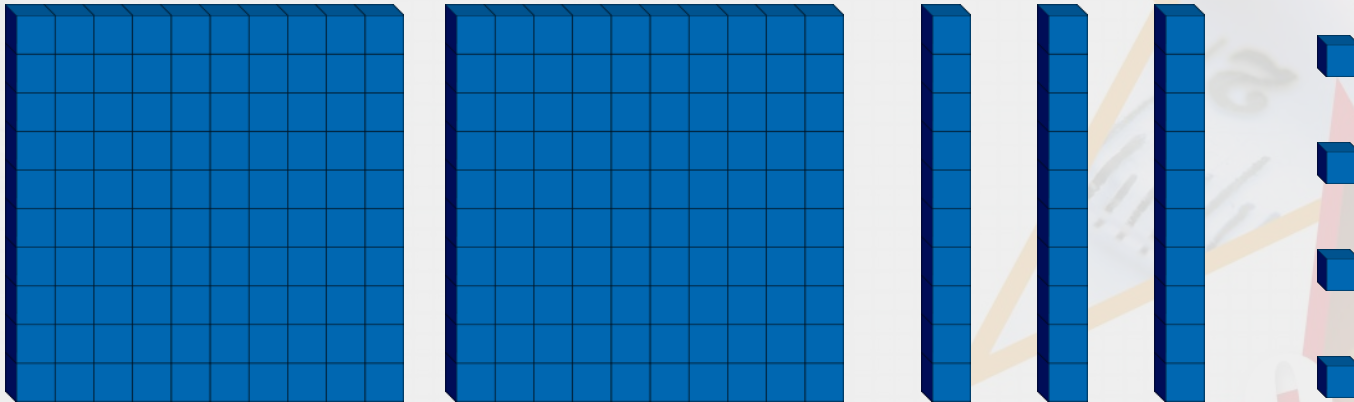
Add 58.

What is the total?

Varied Fluency 1

What number is represented below?

234




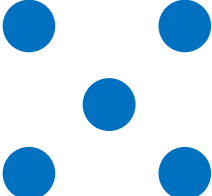
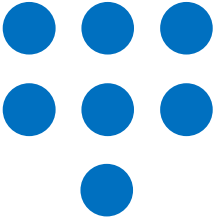
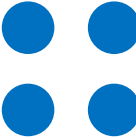
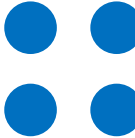
Add 58.

What is the total?

$$234 + 58 = 292$$


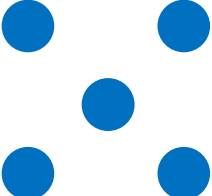
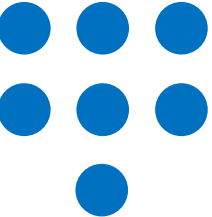
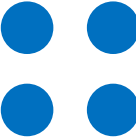
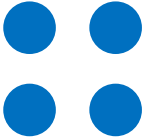
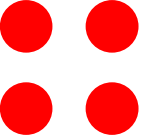

Varied Fluency 2

Complete the calculation.
Represent your answer using place value counters.

	Hundreds	Tens	Ones
			
+			

Varied Fluency 2

Complete the calculation.
Represent your answer using place value counters.

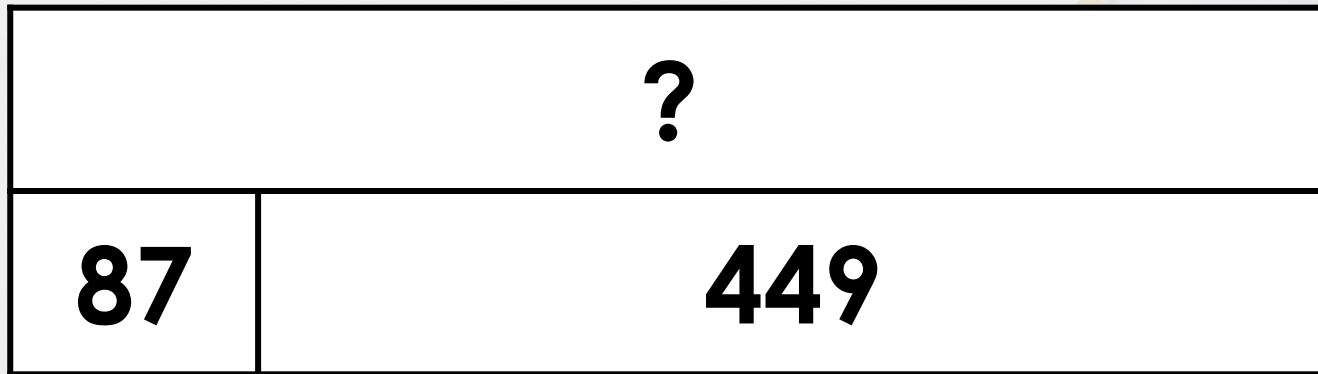
Hundreds	Tens	Ones
		
		
		

+

$$357 + 44 = 401$$

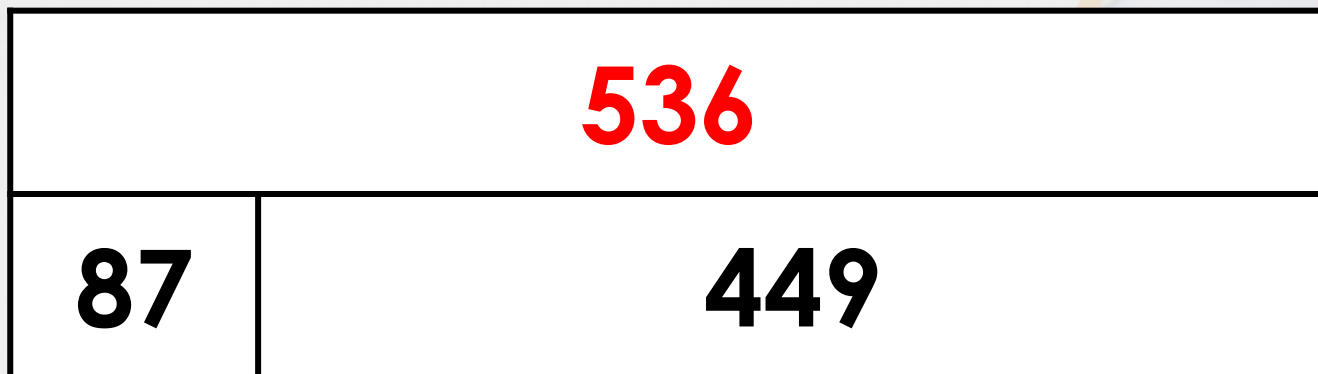
Varied Fluency 3

Complete the bar model.



Varied Fluency 3

Complete the bar model.



Varied Fluency 4

Complete the calculations.
Fill in the blanks using $<$, $>$ or $=$.

$159 + 42$

$138 + 52$

$385 + 25$

$377 + 24$

Varied Fluency 4

Complete the calculations.
Fill in the blanks using $<$, $>$ or $=$.

$$159 + 42$$
$$(201)$$

$>$

$$138 + 52$$
$$(190)$$

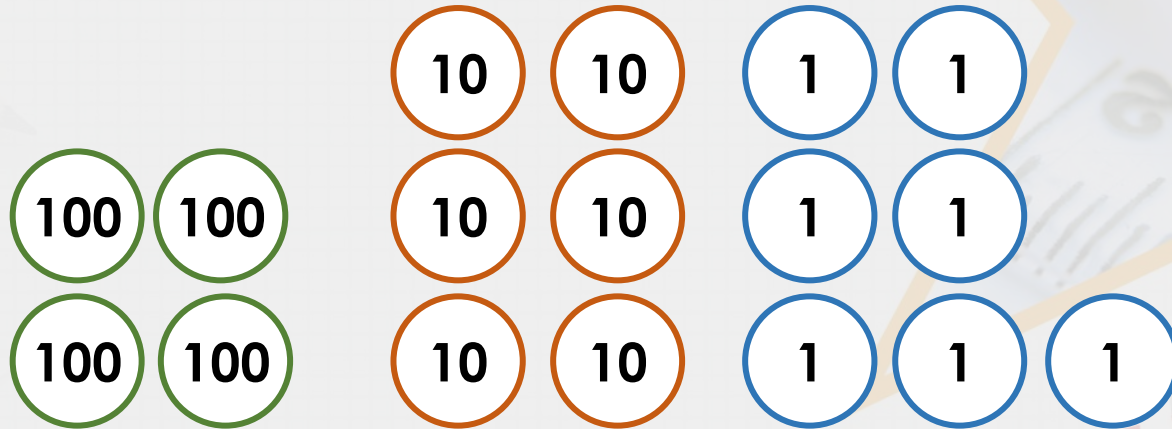
$$385 + 25$$
$$(410)$$

$>$

$$377 + 24$$
$$(401)$$

Problem Solving 1

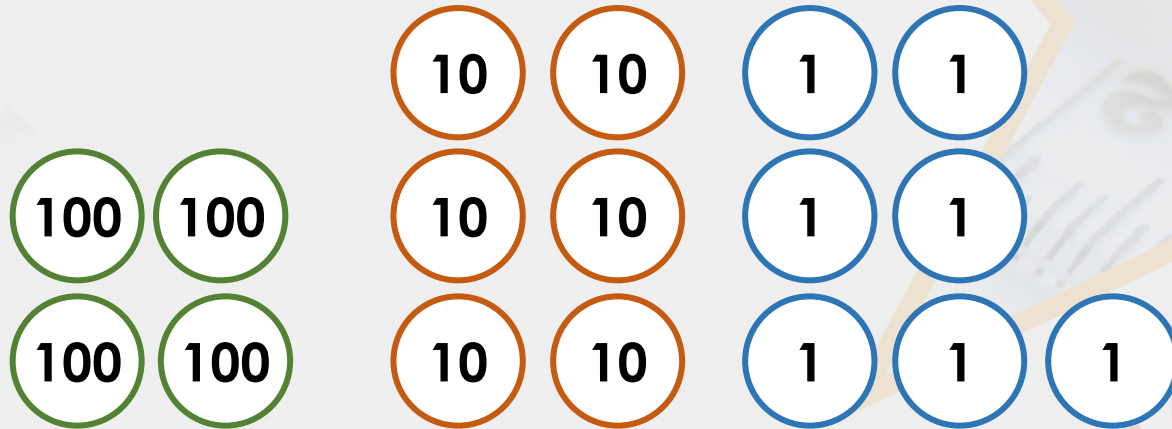
I have added a 2-digit number and a 3-digit number.
This is the answer.



What is the calculation?

Problem Solving 1

I have added a 2-digit number and a 3-digit number.
This is the answer.

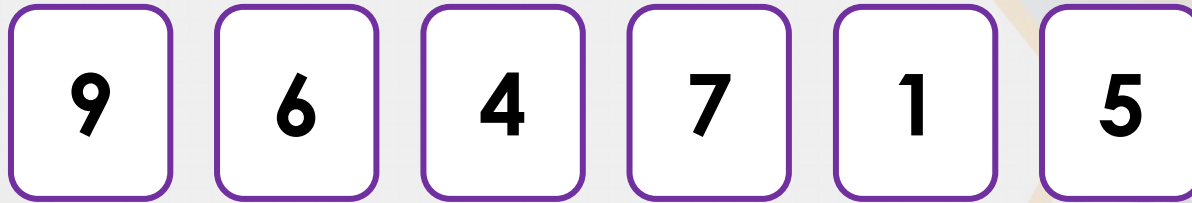


What is the calculation?

**Various possible answers, for example:
429 + 38; 399 + 68; 378 + 89**

Problem Solving 2

Use 5 digit cards to complete the calculation below.



$$\begin{array}{r} \square \quad \square \quad \square \\ + \quad \square \quad \square \\ \hline 6 \quad 9 \quad 4 \\ \hline \end{array}$$

Problem Solving 2

Use 5 digit cards to complete the calculation below.



$$\begin{array}{r} \begin{array}{ccc} \boxed{6} & \boxed{1} & \boxed{9} \\ & \boxed{7} & \boxed{5} \end{array} \\ + \\ \hline \begin{array}{ccc} 6 & 9 & 4 \end{array} \\ \hline \end{array}$$

or $675 + 19$; $615 + 79$; $679 + 15$

Reasoning 1

Jenny is adding a 3-digit number and a 2-digit number.

- **The 3-digit number has a 5 in the tens column and a 4 in the ones column.**
- **The 2-digit number has a 7 in the tens column and a 6 in the ones column.**

Zara thinks the answer will have a 2 in the tens column and a 0 in the ones column.

Is she correct? Explain your answer.

Reasoning 1

Jenny is adding a 3-digit number and a 2-digit number.

- The 3-digit number has a 5 in the tens column and a 4 in the ones column.
- The 2-digit number has a 7 in the tens column and a 6 in the ones column.

Zara thinks the answer will have a 2 in the tens column and a 0 in the ones column.

Is she correct? Explain your answer.

No, Jenny is incorrect because...

Reasoning 1

Jenny is adding a 3-digit number and a 2-digit number.

- The 3-digit number has a 5 in the tens column and a 4 in the ones column.
- The 2-digit number has a 7 in the tens column and a 6 in the ones column.

Zara thinks the answer will have a 2 in the tens column and a 0 in the ones column.

Is she correct? Explain your answer.

No, Jenny is incorrect because 4 ones and 6 ones make 10 ones, meaning there will be a 0 in the ones column and a ten exchanged. 5 tens and 7 tens (plus the exchange) equals 13 tens (e.g. $\underline{154} + \underline{76} = \underline{230}$).