



Explain How Addition and Subtraction Work

2.NBT.B.9

Fact Families as Equations

The other numbers add up to the top number.

Using the fact family, explain how addition and subtraction are related.

The biggest number always goes up top.

The top number minus one of the other numbers will always equal the other number.

$42 + 25 = 67$

$67 - 25 = 42$

$67 - 42 = 25$



Digital Lesson & Printable Recording Sheet

Adding 2 Digit Numbers

To solve a 2-digit by 2-digit equation without regrouping, you follow the steps below.

$$\begin{array}{r} 57 \\ + 32 \\ \hline 89 \end{array}$$

Tens	Ones
	
	



FIRST, you add the _____ NEXT,

write how many ones you have under the _____ column. THEN, add the

_____ FINALLY, Write how many
tens you have under the _____
column.

ten's

tens

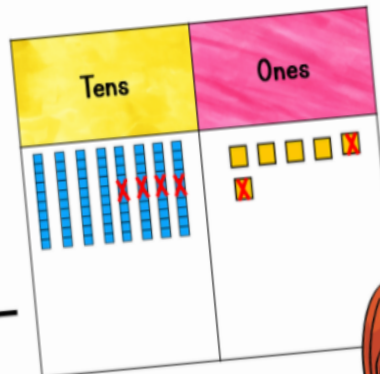
ones

one's

Subtracting 2 Digit Numbers

To solve a 2 digit by 2 digit equation without regrouping, you follow the steps below.

$$\begin{array}{r} 86 \\ - 42 \\ \hline 44 \end{array}$$



FIRST, you subtract the _____

NEXT, write how many ones you have under the _____ column. THEN,

the _____

many tens you have under the

_____ column.



one's

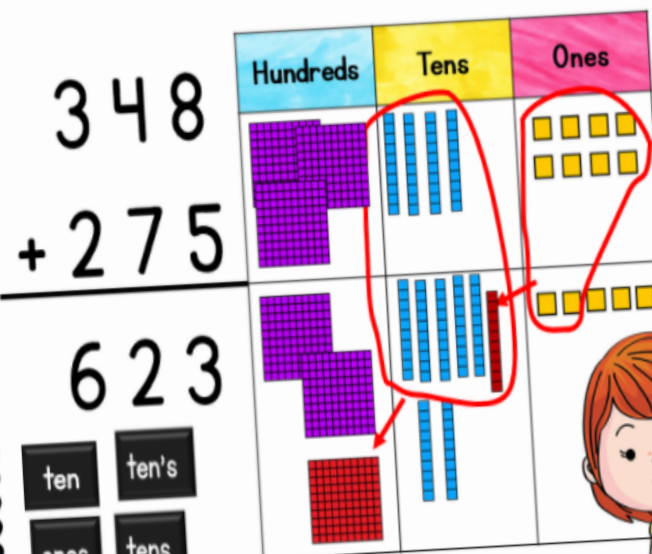
ones

ten's

tens

Adding 3 Digit Numbers

To solve a 3 digit by 3 digit equation with regrouping, you follow the steps below.



ten ten's
ones tens
one's hundred hundred's

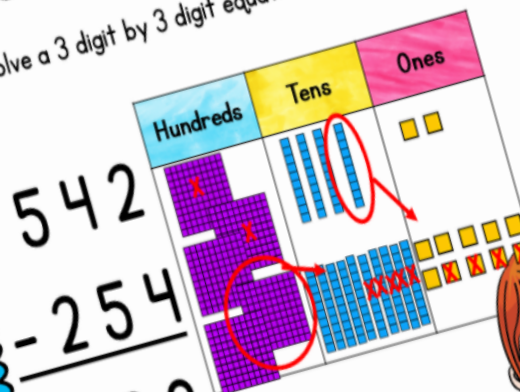
hundred's 9 9



FIRST, you add the _____. If the ones are greater than _____ you need to trade them in for a _____. NEXT, you write how many ones are left under the _____ column in the equation. THEN, you add the _____. If the tens are greater than _____ you need to trade them in for a _____. AFTER, you write how many tens you have under the _____ column. FINALLY, you add the hundreds column. Write how many hundreds you have under the _____ column.

Subtracting 3 Digit Numbers

To solve a 3 digit by 3 digit equation with regrouping, you follow the steps below.



542
- 254

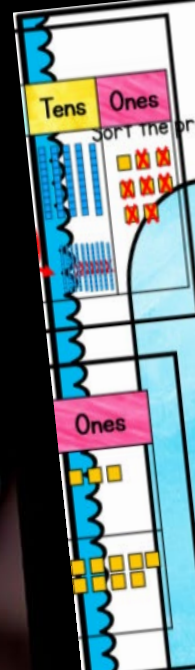
288

ten ten's
ones tens
one's ten hundreds



FIRST, you subtract the _____ If you don't have enough ones, you need to trade in a ten for _____ ones. NEXT, you write how many ones are left under the _____ column in the equation. THEN, you subtract the _____ If you don't have enough tens, you need to trade in a hundred for _____ tens. FINALLY, you write how many tens you have under the _____ column. LASTLY, you subtract the _____

Explore



Sort the problems below into correct and incorrect.

Correct

Incorrect

52

- 37

15

247

+ 135

181

CENTIMETERS 2 3

20 21 22 23 24 25 26 27

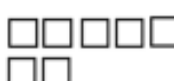
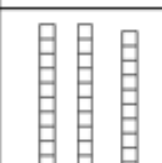
120 130 140 150 160 170 180
0 INCHES
10 20 30 40 50

Name: _____ Date: _____

Explain Addition and Subtraction Lesson Recording Sheet: Day 1

To solve a 2-digit by 2-digit equation without regrouping, you follow the steps below.

$$\begin{array}{r} 57 \\ + 32 \\ \hline 89 \end{array}$$

Tens	Ones
	
	

FIRST, you add the _____.

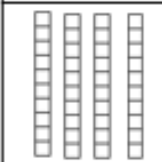
NEXT, write how many ones you have under the _____

column. **THEN**, add the _____.

FINALLY, Write how many tens you have under the _____ column.

To solve a 2-digit by 2-digit equation with regrouping, you follow the steps below.

$$\begin{array}{r} 48 \\ + 25 \\ \hline \end{array}$$

Tens	Ones
	
	

FIRST, you add the _____. If the ones are greater than _____ you need to trade them in for a _____.

NEXT, you write how many ones are left under the _____ column in the equation. **THEN**, you add the _____.

FINALLY, you write how many tens you have under the _____ column.

Name: _____ Date: _____

Explain Addition and Subtraction Lesson Recording Sheet: Day 1

Explore: Solve the addition problem, then write an explanation of how to solve it.

$$\begin{array}{r} 55 \\ + 42 \\ \hline \end{array}$$

Tens	Ones

FIRST,

NEXT,

THEN,

FINALLY,

Explore: Solve the addition problem, then write an explanation of how to solve it.

$$\begin{array}{r} 37 \\ + 18 \\ \hline \end{array}$$

Tens	Ones

FIRST,

NEXT,

THEN,

FINALLY,