

ADD



Lesson 2-3



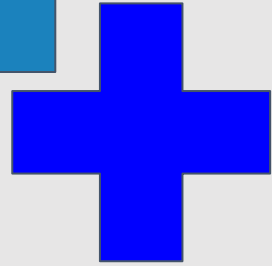
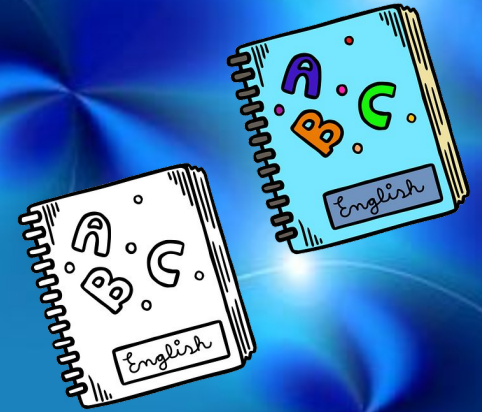
Add

Whole Numbers



**BROADUS
LEARNINGS**

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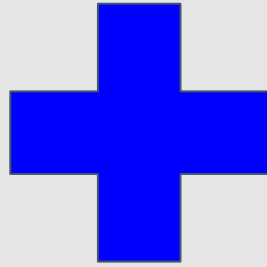
Objective:

Today, we will add numbers with and without regrouping using the standard algorithm.



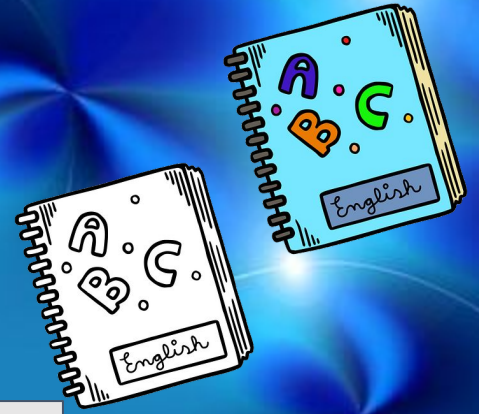
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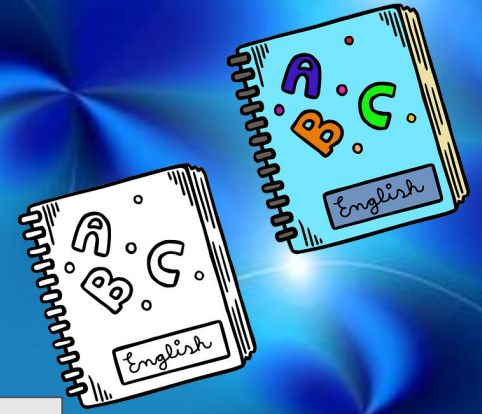


STANDARD:

Add and subtract multi-digit whole numbers up to and including 100,000 using the standard algorithm with place value understanding.

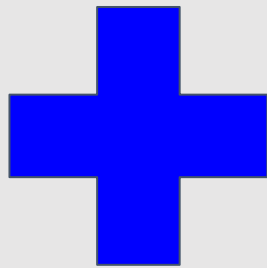


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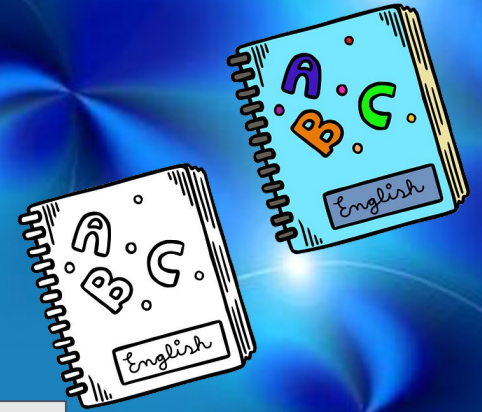
I CAN STATEMENT:

I can connect place-value concepts by using addition algorithms.



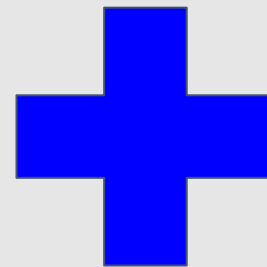
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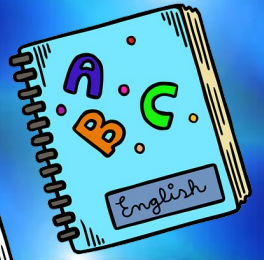
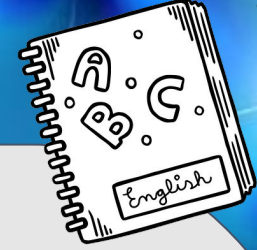
ESSENTIAL QUESTION:

How can you add whole numbers efficiently?



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In previous lessons we learned how to use mental math. Sometimes, the easiest way to add is to use the standard algorithm. When we use the standard algorithm, we simply line up the digits by place value and add, starting in the ones place, then tens, and so on!



ADD



Use the standard algorithm to add. $313 + 641$

Hint: Line up the numbers based on place value and put the number with the greatest number of DIGITS on top.

H T O

$$\begin{array}{r} 641 \\ + 313 \\ \hline 4 \end{array}$$

1. Start adding with the **ones** place.



Use the standard algorithm to add. $313 + 641$

Hint: Keep your digits lined up by place value, including the sum!

H T O

641

+ 313

54

2. Add the
tens place.

ADD



ADD



Use the standard algorithm to add. $313 + 641$

Hint: Keep your digits lined up by place value, including the sum!

H T O

641

+ 313

954

3. Add the hundreds place.

ADD



593 people attended a football game at Davie on Monday. On Friday, 220 people attended the game. How many total people attended the game on Monday and Friday?

Hint: Line up the numbers based on place value and put the number with the greatest number of DIGITS on top.

$$\begin{array}{r} \text{H T O} \\ 593 \\ + 220 \\ \hline \end{array}$$

1. Start adding with the **ones** place.

3 ones + 0 ones = 3 ones

No regrouping needed because sum of digits in a place value is less than 9.

ADD



593 people attended a football game at Davie on Monday. On Friday, 220 people attended the game. How many total people attended the game on Monday and Friday?

Hint: Keep your digits lined up by place value, including the sum!

$$\begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ \downarrow \text{1} \\ 593 \\ + 220 \\ \hline 13 \end{array}$$

2. Add the tens place.

9 tens + 2 tens = 11 tens

Regroup: 11 tens = 1 hundred + 1 ten

ADD



593 people attended a football game at Davie on Monday. On Friday, 220 people attended the game. How many total people attended the game on Monday and Friday?

Hint: Keep your digits lined up by place value, including the sum!

H T O
↓ 1 ↓

593

+ 220

813

3. Add the hundreds place.

1 hundred + 5 hundreds + 2 hundreds = 8 hundreds
No regrouping needed because sum of digits in a place value is less than 9.

593 people attended a football game at Davie on Monday.
On Friday, 220 people attended the game. How many total
people attended the game on Monday and Friday?

ADD


$$\begin{array}{r} \text{H T O} \\ \downarrow 1 \\ 593 \\ + 220 \\ \hline 813 \end{array}$$

813 people attended the game on Monday and Friday.

Luis and his brother, Tony, decided to save money to pay for a new PS5 for their room. Luis deposited \$246 in the bank last week, Tony deposited \$192 in the bank two weeks ago. On yesterday, their dad deposited \$357 into their account. ABOUT how much money did they save for the PS5?

$$\begin{array}{r} \text{H T O} \\ 246 \\ 192 \\ + \underline{357} \end{array} \begin{array}{l} \rightarrow \\ \rightarrow \\ \rightarrow \end{array}$$

ADD



ADD



\$246 \$192 \$357

One way to estimate would be to round to the nearest hundred and then add.

There are many ways to estimate!! How did you estimate?

246 → 200

192 → 200

+357 → + 400
800

ADD



\$246 \$192 \$357

One way to estimate would be to round to the nearest hundred and then add.

There are many ways to estimate!! How did you estimate?

$$\begin{array}{r} 200 \\ 200 \\ + 400 \\ \hline 800 \end{array}$$

Luis and his brother, Tony, decided to save money to pay for a new PS5 for their room. Luis deposited \$246 in the bank last week, Tony deposited \$192 in the bank two weeks ago. On yesterday, their dad deposited \$357 into their account. ABOUT how much money did they save for the PS5? Use any strategy you like to determine the EXACT amount of money they had collected in all.

ADD



$$\begin{array}{r} \text{H T O} \\ \downarrow 1 \\ 246 \\ 192 \\ + 357 \\ \hline 5 \end{array}$$

1. Start adding with the **ones** place.

6 ones + 2 ones + 7 ones = 15 ones
Regroup 15 ones = 1 ten + 5 ones.

ADD



	H	T	O
	↓ 1	↓ 1	
	2	4	6
	1	9	2
+	3	5	7
		9	5

2. Add the **tens** place.

1 ten + 4 tens + 9 tens + 5 tens = 19 tens
Regroup: 19 tens = 1 hundred + 9 tens

ADD



H T O

↓ 1 ↓ 1

$$\begin{array}{r} 246 \\ 192 \\ + 357 \\ \hline 795 \end{array}$$

3. Add the **hundreds** place.

1 hundred + 2 hundreds + 1 hundred + 3 hundreds = 7 hundreds
No regrouping needed because sum of digits in a place value is less than 9.

\$246 \$192 \$357

**The exact amount is close to our estimate!
Do you think the brothers can buy their PS5
now?**

ADD



246 → 200

192 → 200

+357 → + 400

795 → 800

ADD



Exit Ticket: Haleigh works at Dairy Queen. She worked 209 hours in August and 184 hours in July. How many total hours did she work during those two months?

Hint: Line up the numbers based on place value and put the number with the greatest number of DIGITS on top.

1. Start adding with the **ones** place.
2. Add the **tens** place.
3. Add the **hundreds** place.

Please remember to regroup if the sum of the digits in a place value is greater than 9.

ADD



What's the most important thing to remember when adding using the standard algorithm? Think of how you will limit errors in your work?

ADD



INDEPENDENT PRACTICE:

pg 47 5-7 partial sum strategy
8-10 standard algorithm

HOMEWORK:

finish independent practice