

Lesson 8: Addition – Double Digit Plus Single Digit

Sitting at the kitchen table with their Place Value Village spread out before them, Charlie and Charlotte looked at Mom with inquisitive faces and asked her how to add bigger numbers to smaller numbers.



Mother removed the Hundreds' House for now and set the Tens' House and Ones' House in front of them. She took the numbered cards and set a "1" in the Tens' House and another "1" in the Ones' House.

"What number is this, children?" she asked.

"Why, it's eleven, Mom" responded Charlotte, "one 'ten' and one 'one' is 11."

"Nicely done, Charlotte," encouraged Mom.

Next, Mom added a "5" in the Ones' House under the "1." She then asked Charlie, "Now how many 'ones' do I have?"

Charlie excitedly responded, "Why, you have six ones now, Mom. I know! I know! I know! You have one 'ten' and six 'ones' so now you have sixteen, so we can say that $11+5$ is equal to 16, right, Mom?"

"Yes, Charlie, yes, you are right," smiled Mom, trying her best not to explode with laughter over her son's contagious enthusiasm.

Charlotte eagerly asked, "Mother, will you please give me an addition problem with bigger numbers now?"

"Sure Charlotte," replied Mom.

Mom removed the numbers in the Tens' House and in the Ones' House and now placed a "2" in the Tens' House and a "5" in the Ones' House. She placed a "3" under the "5" in the Ones' House and then glanced at Charlotte, "Okay, Charlotte, what do you think?"

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Charlotte's blue eyes sparkled as she began talking it out, "Well, we have to look in the Ones' House first. We have five 'ones' plus three more 'ones.' That makes eight 'ones.' We have two 'tens' so that makes '28' for the answer. So, Mother, $25+3=28$."

"You are correct, Charlotte! Very good job!" exclaimed Mom. "And you are right. We always need to look at the Ones' House first and add them up, and then we can look at the Tens' House."

Tens		Ones	
2		5	
+		3	
2		8	

Because there are 2 groups of ten with no other groups being added, simply "bring down" the groups of 2.

Add the numbers in the ONES place first.

Mother showed them the way they would write the problems on paper, like this:

$$\begin{array}{r} 25 \\ + 3 \\ \hline 28 \end{array}$$

With eyes twinkling, the twins continued working on bigger number addition problems for the next hour. Mom smiled contentedly and continued

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knitting the blanket for their new baby, who was, at this very moment, kicking enthusiastically from within her.

Exercise 1

Let's practice with these addition problems. Use your "Bigger Number Addition Mat" and counting items.

$$\begin{array}{r} 90 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 61 \\ + 5 \\ \hline \end{array}$$

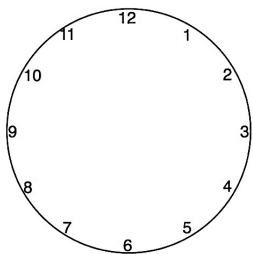
$$\begin{array}{r} 80 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 53 \\ + 4 \\ \hline \end{array}$$

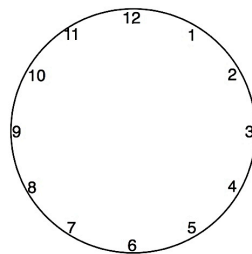
$$\begin{array}{r} 33 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \\ + 5 \\ \hline \end{array}$$

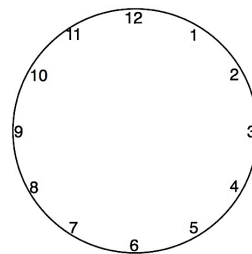
Clock practice: Fill in the face of the clock and draw hands to show the correct time.



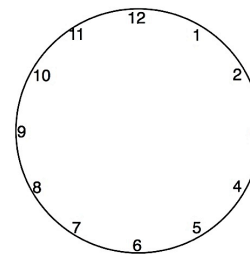
7 o'clock



3 o'clock



8 o'clock



12 o'clock

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Exercise 2

It's important to practice the new concepts as we learn them. Solve these addition problems. Remember to add the one's column first. Use your counting items.

$$\begin{array}{r} 90 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 84 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 74 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 56 \\ + 2 \\ \hline \end{array}$$

Use your flashcards to drill your facts.

addition

subtraction

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Exercise 3

$$\begin{array}{r} 53 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 73 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 93 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 56 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 63 \\ + 5 \\ \hline \end{array}$$

Complete these patterns. Circle the next shape.



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Exercise 4 & 5

Today and tomorrow, use your Place Value Village Counting Mat and counting items to solve these problems. Solve five problems each day and choose one review activity. Narrate to your parent what you are doing.

$$\begin{array}{r} 52 \\ + 7 \\ \hline \end{array}$$
$$\begin{array}{r} 61 \\ + 3 \\ \hline \end{array}$$
$$\begin{array}{r} 32 \\ + 4 \\ \hline \end{array}$$
$$\begin{array}{r} 91 \\ + 5 \\ \hline \end{array}$$
$$\begin{array}{r} 74 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \\ + 5 \\ \hline \end{array}$$
$$\begin{array}{r} 81 \\ + 7 \\ \hline \end{array}$$
$$\begin{array}{r} 92 \\ + 4 \\ \hline \end{array}$$
$$\begin{array}{r} 51 \\ + 6 \\ \hline \end{array}$$
$$\begin{array}{r} 64 \\ + 4 \\ \hline \end{array}$$

Review activities:

#1: Solve these word problems.

Charlie loves ice cream! Last week he ate a cone which had 2 scoops of ice cream, and this week, he ate a cone which had 2 scoops. How many scoops of ice cream has Charlie eaten all together?

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Charlotte is practicing jump roping. On Monday, she jumped 10 times without stopping, and on Tuesday she jumped 9 times without stopping. How many times did Charlotte jump all together?

#2 Practice counting these coins.



_____ ¢



_____ ¢



_____ ¢