**Title: Adding Double Digit Numbers**

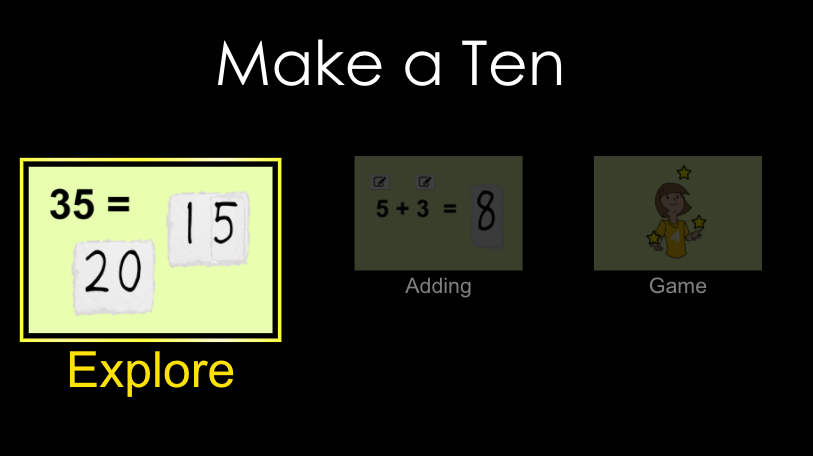
**Important Questions:**

How do we add double-digit numbers with a sum under 100?

**Instructions:**

In this activity, we will be adding double-digit numbers with sums under 100.

1. Click this link: <https://phet.colorado.edu/sims/html/make-a-ten/latest/make-a-ten_en.html>

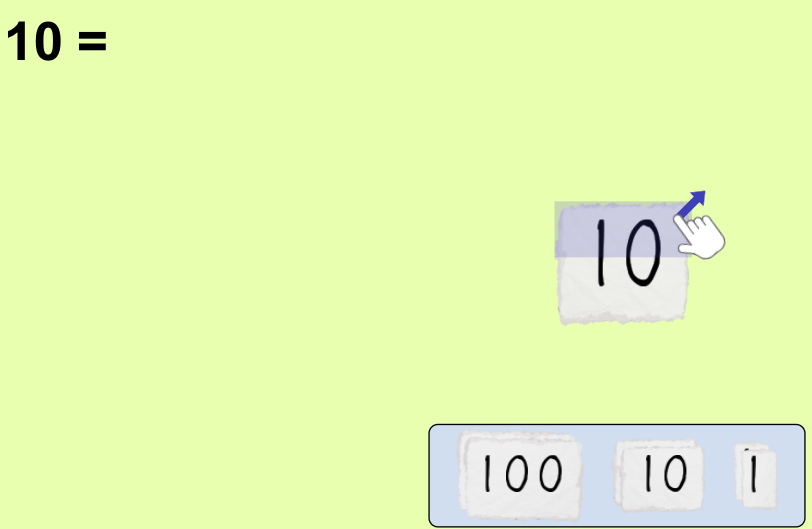
[](https://phet.colorado.edu/sims/html/make-a-ten/latest/make-a-ten_en.html)

**Exploration Phase:**

**(5 minutes)**

1. Briefly explore this sim. Click the “Explore” tab.

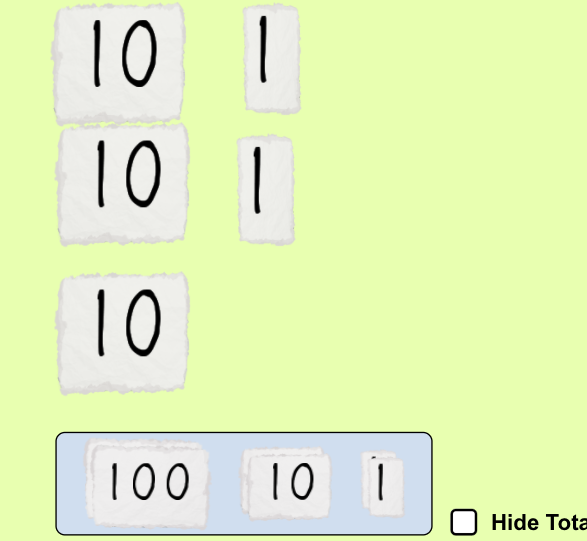
2. On this screen you will see:



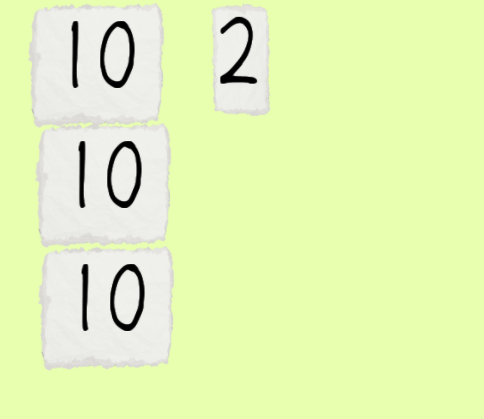
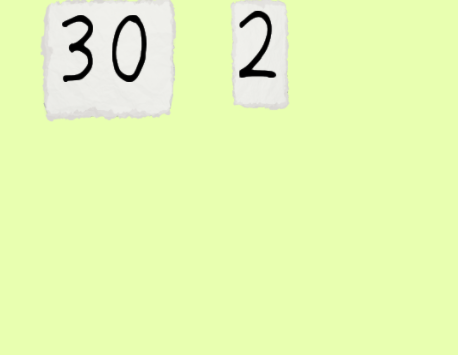
3. Explore different combinations of 100s, 10s, and 1s.

4. Notice the reset button in the bottom right hand corner. Click the reset button.

5. Pull out 3 tens and 2 ones.



Stack the ones first. Then stack the tens.

Add the two numbers together.   
  
1) What number did you get? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2) How many tens are in the tens place? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
3) How many ones are in the ones place? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

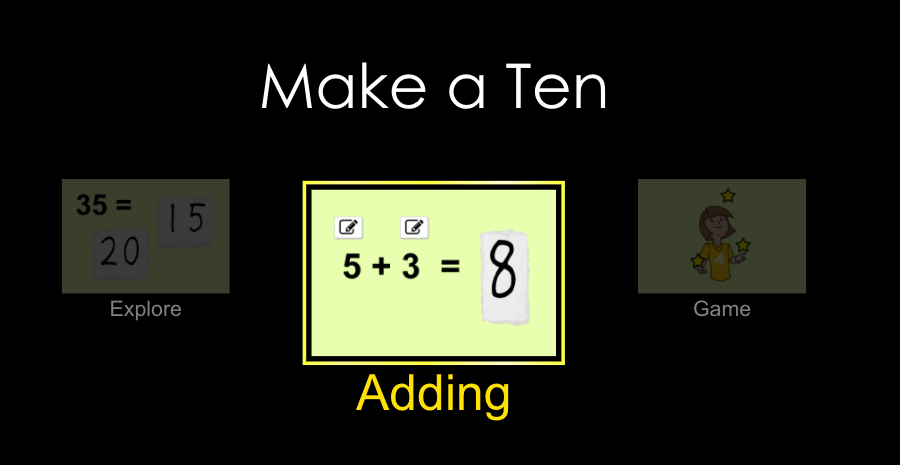
**Explanation Phase:**

**(10 minutes)**

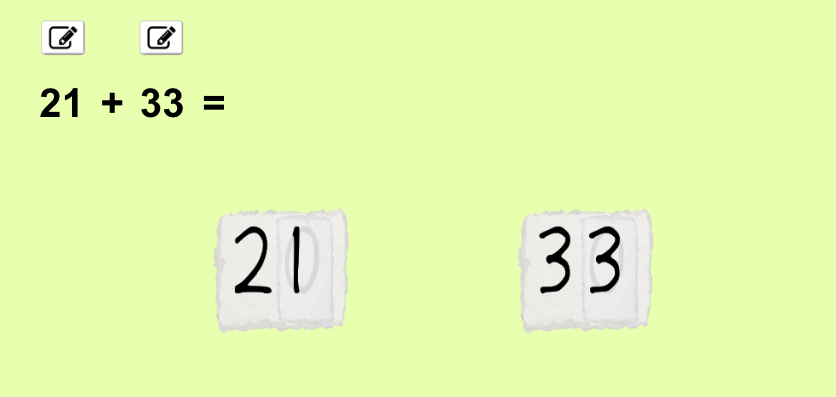
This Phase has an investigative goal.

*Aim: Adding double-digits together with sums under 100.*

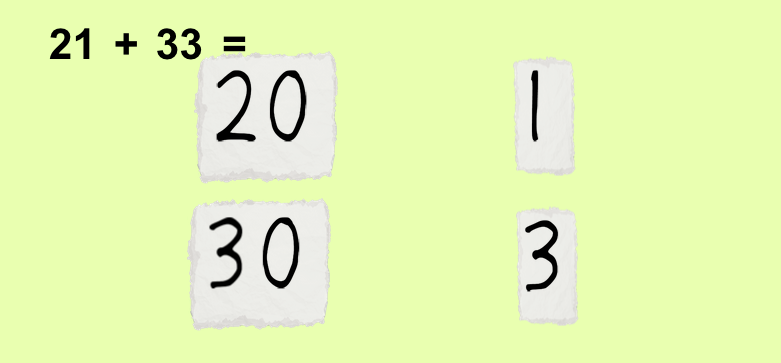
Go back to home and click on the adding screen.



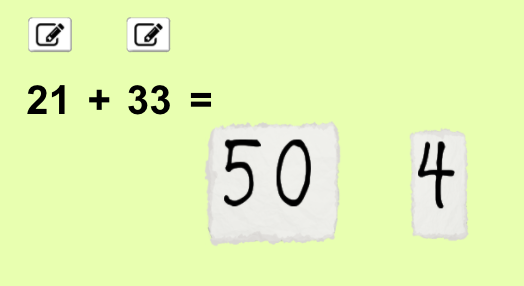
1) Type in the numbers:



Separate the ones from the tens for both 21 and 33.

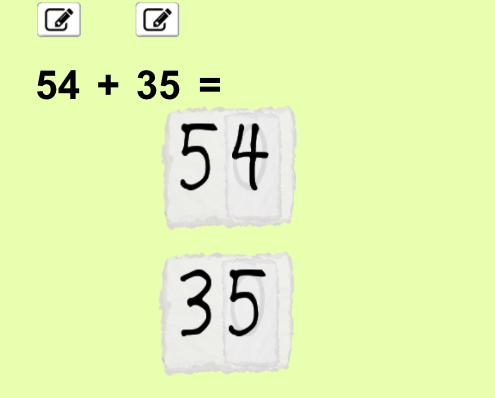


**Add all of the ones together. Add all of the tens together.**

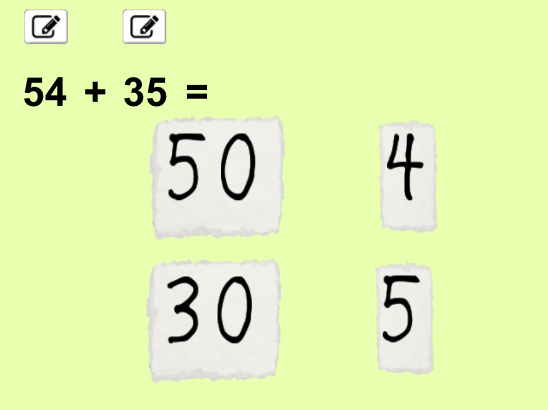


**21+33= \_\_\_\_\_\_\_\_\_\_**

2) Type in the numbers:



Separate the ones from the tens.



**Add the ones together. Add the tens together.**

**54+35= \_\_\_\_\_\_\_\_\_\_\_\_\_**

**Try these:**

1. **47+ 33= \_\_\_\_\_\_\_\_\_\_\_\_\_**
2. **58+ 23= \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Explain:**

**What happens when you add 7+3 together?**

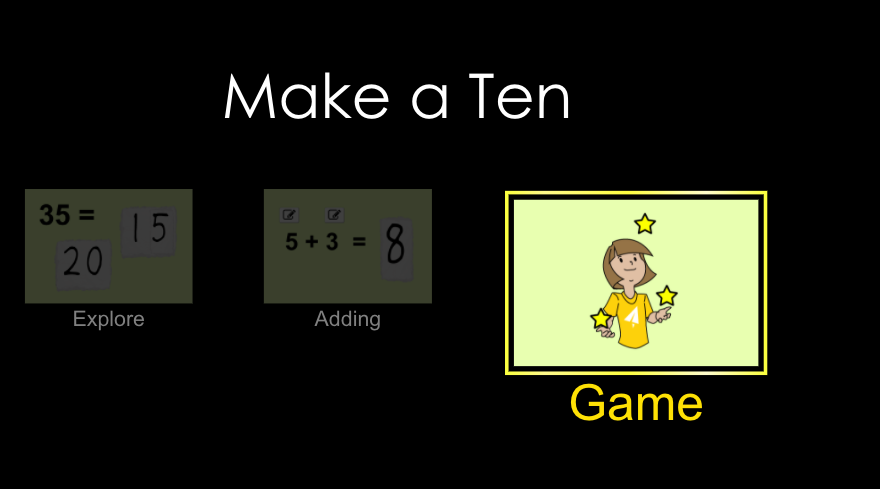
**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
What happens when you add 8+3 together?**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

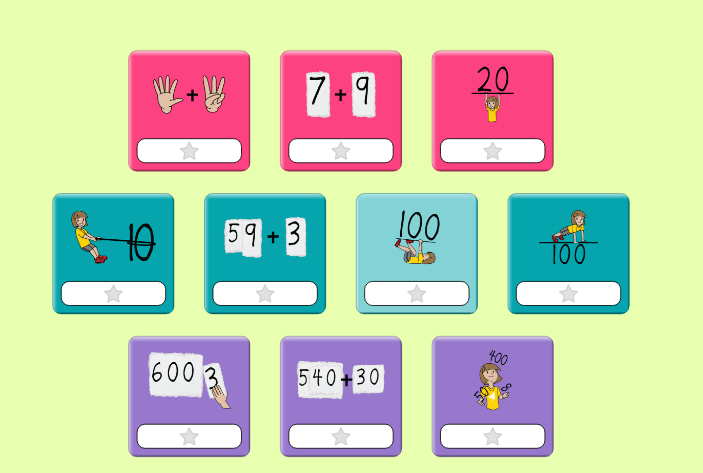
**Application Phase:**

**(25 minutes)**

Click the “Game” tab.The screen below appears.



Complete level 6: Add double-digit numbers with sums under 100.

****

**Record your answer below.**

**1) 2) 3) 4)**

**   **

**5) 6) 7) 8)**

**   **

**9) 10)**

** **