**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>



**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?**

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

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

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**Application Phase:**

**(25 minutes)**

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



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

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**Record your answer below.**

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

**   **

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

**   **

**9) 10)**

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