




Number Line



Adding Whole Numbers, Fractions, and Decimals


You can add whole numbers, fractions, and decimals using a number line.

- The two-part workspace provides 2 number lines that can be set for whole numbers, fractions, or decimals.
- Use  to set the number line to whole numbers, fractions, or decimals as needed.


Practice Using a Number Line

- 1 The number line is set for whole numbers from 0 to 10 by default.


- Drag a  onto the 3 and a  onto the 7. Use the number line to determine what must be added to 3 to equal 7.


Drag 4  onto each whole number between 3 and 7. So, $3 + 4 = 7$.

- 2 Select the top number line by checking the

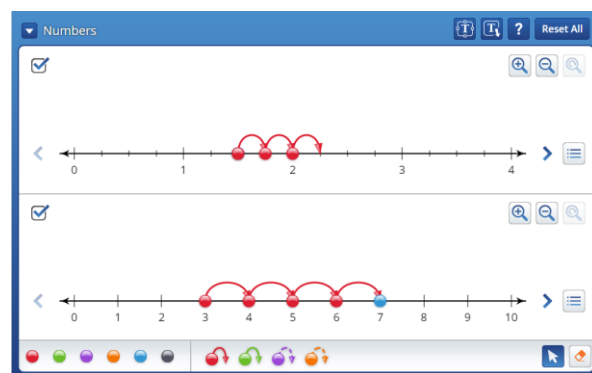
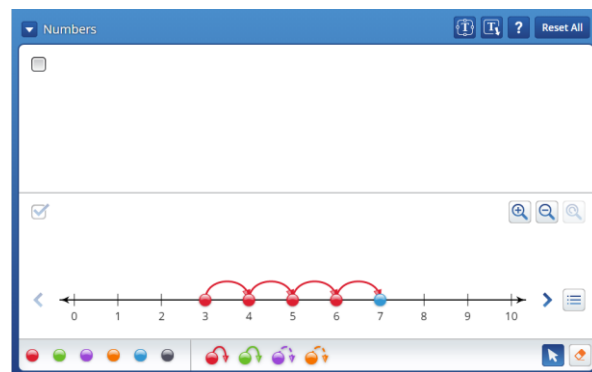
checkbox. Use  to set the number line to fractions. Set the minimum to 0/1, the maximum to 4/1, and the interval to 1/4.

- Drag a  onto $1 \frac{1}{2}$.

- You can add $\frac{3}{4}$ to $1 \frac{1}{2}$ by dragging 3  onto to each fractional part to demonstrate that $1 \frac{1}{2} + \frac{3}{4} = 2 \frac{1}{4}$.

- Use  to set the number line to change to decimal form. You can set it up similarly to the fraction mode to demonstrate the addition of decimals.

- Use  to clear the number line and start over with the default number line.






Number Line







Adding and Subtracting Whole Numbers

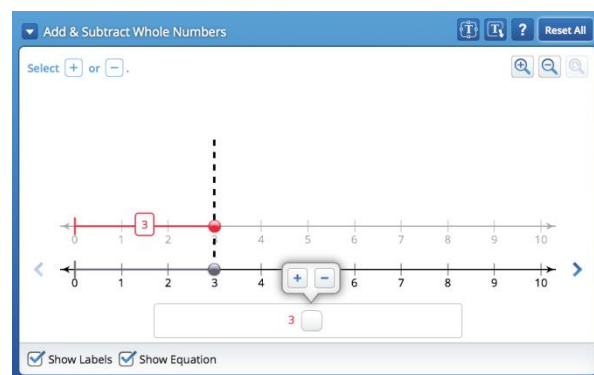
You can add and subtract whole numbers using a number line.



To get to the Add & Subtract Whole Numbers mode, click  to see the drop-down menu and select **Add & Subtract Whole Numbers**.


Practice Adding/Subtracting Using a Number Line

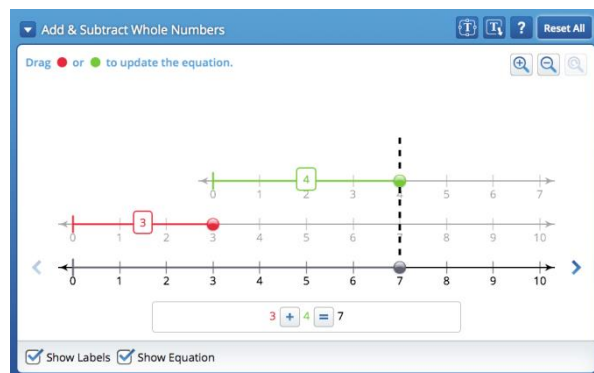
1 Use number lines to create the addition equation $3 + 4$.

- Under , drag the red dot to the first number in the equation, 3. Click on the "Set Value."
- In the , click on the .
- Under , drag the green dot to the second number in the equation, 4. Click on the "Set Value."
- In the , click on the .
So, $3 + 4 = 7$.




2 You can set up a subtraction equation by following the same steps except click  instead of .

- You can add or subtract up to 3 numbers in the equation using the number lines.
- Use  to clear the number line and start over with a new equation.



Number Line

Adding and Subtracting Decimals










You can add and subtract decimals using a number line. Click  to see the drop-down menu and select **Add & Subtract Decimals**.

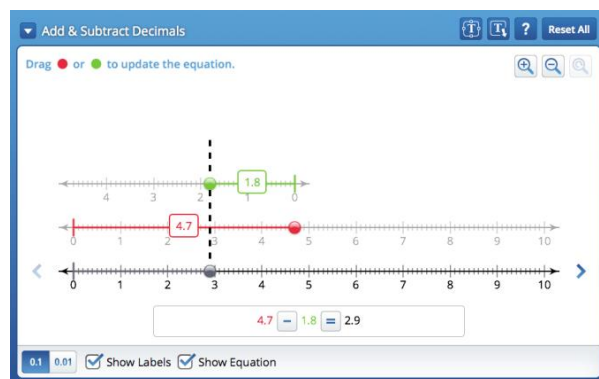
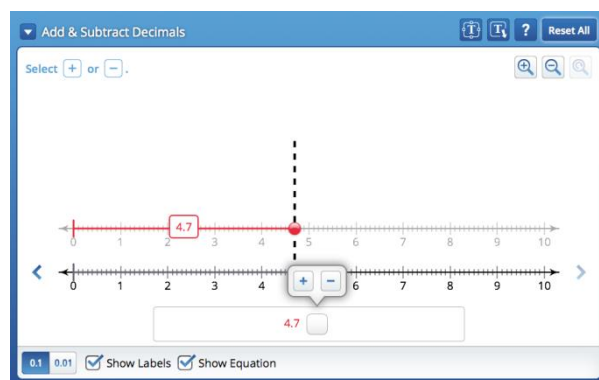
- The workspace provides a number line that can be used to demonstrate the addition and subtraction of decimals.
- The number line can be set to add/subtract tenths or hundredths by clicking on

 .

Practice Adding/Subtracting Decimals Using a Number Line


- 1 Use number lines to create the subtraction equation $4.7 - 1.8$.



- Under , drag the red dot to the first number in the equation, 4.7. Click on the "Set Value."
- In the , click on the .
- Under , drag the green dot to the second number in the equation, 1.8. Click on the "Set Value."
- In the , click on the . So, $4.7 - 1.8 = 2.9$.
- You can set up an addition equation by following the same steps except click  instead of .
- You can add or subtract up to 3 decimal numbers in the equation using the number lines.
- Use  to clear the number line and start over with a new equation.



Number Line


Adding and Subtracting Fractions

You can add and subtract fractions using a number line. Click  to see the drop-down menu and select **Add & Subtract Fractions**.

- The workspace provides a number line that can be used to demonstrate the addition and subtraction of fractions.
- The number line can be set to add/subtract fractions or mixed numbers by clicking on  .

Practice Adding/Subtracting Fractions Using a Number Line

- 1 Use number lines to create an addition equation. Find the sum of $\frac{1}{6} + \frac{3}{4}$.



- Since the first fraction is $\frac{1}{6}$, choose 6 for the denominator. Under , drag the red dot to $\frac{1}{6}$. Click on the "Set Value."


- In the , click on the .

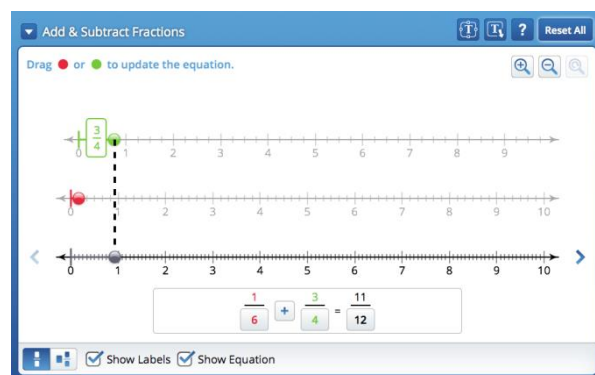
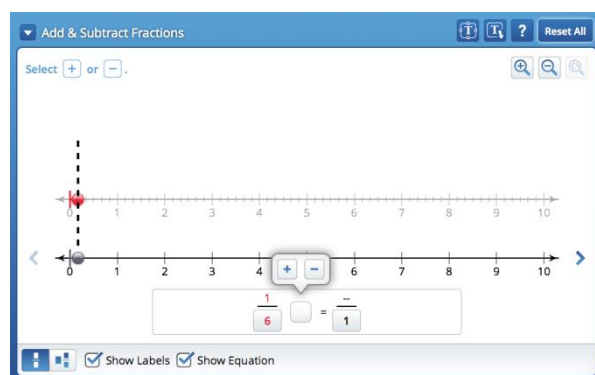
- 2 To show the fraction $\frac{3}{4}$, choose 4 for the denominator. Under , drag the green dot to $\frac{3}{4}$. Click on the "Set Value."

- To add the fractions, you must have a common denominator. Select 12 as the denominator. So, $\frac{1}{6} + \frac{3}{4} = \frac{11}{12}$.

- If you select the incorrect denominator, it will leave the numerator blank. Then, you know you need to select a different number for the denominator.

- 3 You can set up a subtraction equation by following the same steps except click  instead of .


- Use  to clear the number line and start over with a new equation.







Number Line


Using Number Lines to Compare Intervals of Different Place Values

You can use a number line to compare intervals of various place values. Click  to see the drop-down menu and select **Intervals**.

- The workspace provides 3 number lines that represent 3 different place values.
- Click on either arrow of  **Ones Number Line**  to set the bottom number line to show ones, tens, or hundreds place value.
- The number line above each number line is like looking through the magnifying glass on the number line below it to see the smaller units of place value.

Practice Comparing Intervals on a Number Line

1 Use the number lines to show the place on a number line for the number 4.57.

- Since 4.57 is between 4 and 5, drag the magnifying glass on the ones to show the interval 4 to 5.
- 4.57 is between 4.5 and 4.6 on the tenths number line. Move up to the tenths line and drag the magnifying glass to show the interval of 4.5 to 4.6.
- You can change the bottom number line to ones, tens, or hundreds to examine the place values of different numbers.
- Use  to clear the number lines and start over with for a new number.

