

Fractions on a Number Line— Addition and Subtraction Games

Name: _____

You will find ways to reach target numbers by adding and subtracting fractions.

EXPLORE

1. Open **Fractions on a Number Line--Addition and Subtraction Games.gsp**. Go to page “Game A.”

Choose **Add Fraction** or **Subtract Fraction** from the Custom Tools menu.

Follow these steps to make a fraction:

- Click a number. This is the numerator.
- Click another number. This is the denominator.
- Click to place the fraction line segment on a number line. Your fraction is complete!

If you make a fraction but don’t want to keep it, choose **Edit | Undo Make Fraction**.

2. Use the fraction tools to add and subtract fractions to get to $\frac{1}{9}$ using the numbers given. Write a number sentence for each way you find below.

3. Go to page “Game B.” Find different ways to use addition and subtraction to get to $\frac{9}{10}$ using the fraction tools. Write each number sentence below.

4. Go to page “Game C.” Find different ways to use addition and subtraction to get to $\frac{6}{13}$ using the fraction tools. Write each number sentence below.

5. Go to page “Game D.” Find different ways to use addition and subtraction to get to $\frac{5}{7}$ using the fraction tools. Write each number sentence below.

6. Go to page “Game E.” Find different ways to use addition and subtraction to get to $\frac{19}{25}$ using the fraction tools. Write each number sentence below.

7. Go to page “Game F.” Find different ways to use addition and subtraction to get to $\frac{22}{13}$ using the fraction tools. Write each number sentence below.

8. Go to page “Game G.” Find different ways to use addition and subtraction to get to $\frac{3}{4}$ using the fraction tools. Write each number sentence below.

9. Go to page “Game H.” Find different ways to use addition and subtraction to get to $\frac{1}{10}$ using the fraction tools. Write each number sentence below.

10. Go to page “Game I.” Find different ways to use addition and subtraction to get to 8 using the fraction tools. Write each number sentence below.

11. Go to page “Game J.” Find different ways to use addition and subtraction to get to $5\frac{5}{6}$ using the fraction tools. Write each number sentence below.

12. Explain what strategies you used to reach the target numbers.
