



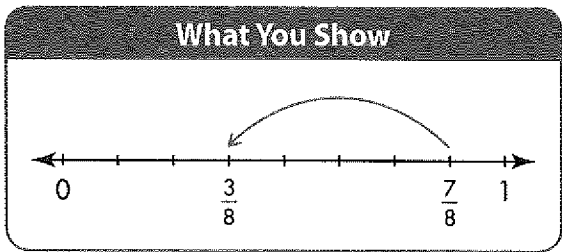
# Homework 11-6

## Adding and Subtracting on the Number Line

### Another Look!

Katie and Raul ran in a relay race. Katie ran  $\frac{3}{8}$  mile, and Raul ran  $\frac{7}{8}$  mile. How much farther did Raul run?

Subtract to find the difference. Always remember to simplify your answer.

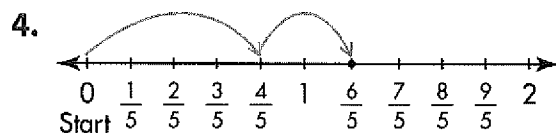
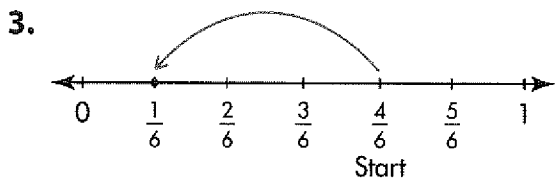
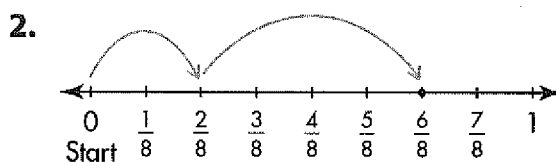
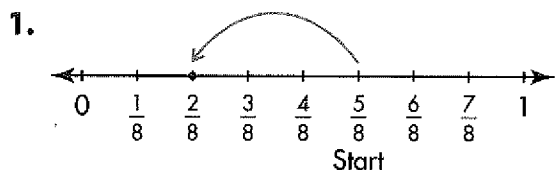


**What You Write**

$$\frac{7}{8} - \frac{3}{8} = \frac{4}{8}$$

$$\frac{4}{8} = \frac{1}{2}$$

In 1 through 4, write the equation shown by the number line. Simplify, if possible.



In 5 through 7, add or subtract the fractions. You may use a number line. Simplify your answer, if possible.

5.  $\frac{2}{6} + \frac{1}{6}$

6.  $\frac{7}{12} - \frac{2}{12}$

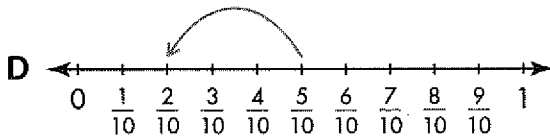
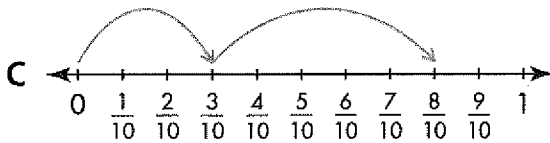
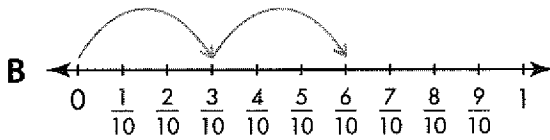
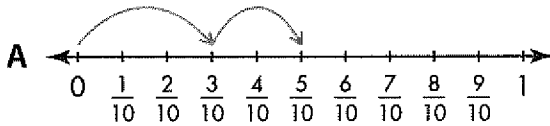
7.  $\frac{1}{8} + \frac{5}{8}$

8. Justify Robbie drew the number line below to find the difference  $\frac{4}{5} - \frac{1}{5}$ . Explain why he is incorrect.

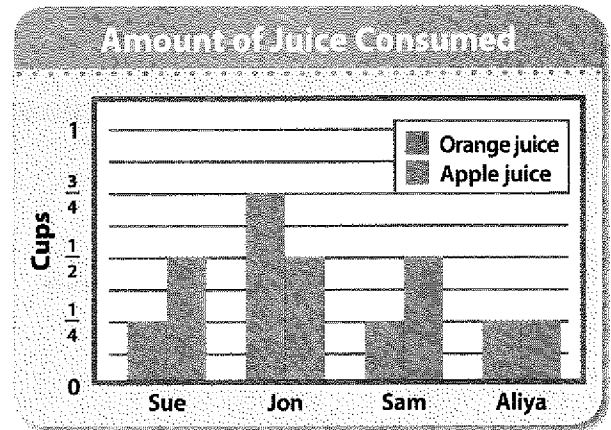


9. Explain Kayla used  $\frac{4}{14}$  of her allowance to buy yogurt and  $\frac{8}{14}$  of her allowance to go skating. What fraction of her allowance does she have left? Explain your thinking.

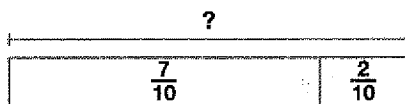
10. Jamie is trying to find the sum  $\frac{3}{10} + \frac{5}{10}$ .  
 ⚙ Which number line shows one way to find the sum?



11. Analyze Information Which child drank the most juice in all? How much juice did that child drink?



12. Use a Strip Diagram Val's construction team was supposed to build a frame  $\frac{7}{10}$  meter long. They ended up building the frame  $\frac{2}{10}$  meter too long. How long was the frame Val's team built?



13. Extend Your Thinking Sofia bought bananas, cereal, and milk at the store. She spent all of her money. She spent  $\frac{3}{10}$  of her money on bananas and  $\frac{4}{10}$  of her money on cereal. What fraction of her money did she spend on milk?