

Assignment

Write

In your own words, explain how to decide whether the sum of two numbers is less than, equal to, or greater than 0.

Remember

Combining positive and negative moves together on a line results in a move to the left, a move to the right, or staying in the same position, depending on the size of the positive and negative values.

Practice

1. Determine the ending position by adding and subtracting the indicated steps from each starting position.

Starting Position	Steps Backward	Steps Forward	Ending Position
+3	4	5	
+7	6	2	
+5	2	4	
0	5	8	
-4	3	7	
+1	7	9	
-6	1	5	
-2	5	6	
8	3	1	
-9	2	4	

2. Write an equation to represent the movement indicated by the starting point, steps backward, and steps forward.

Starting Position	Steps Backward	Steps Forward	Equation
+2	4	7	
-7	3	5	
+6	9	4	
+4	6	1	
-5	2	9	
0	5	3	
-3	1	4	
-8	2	6	
0	8	2	
+9	7	8	

Stretch

Draw a model to represent the addition problem $-3\frac{1}{2} + (-1\frac{1}{4})$. Then determine the solution.

Review

1. Solve each proportion.

a. $\frac{6.6}{p} = \frac{9}{12.15}$

b. $\frac{8}{10.5} = \frac{c}{6.5625}$

2. Describe which method (scaling, unit rate, or means and extremes) you would use to solve for each variable and explain why.

a. $\frac{2}{3} = \frac{20}{x}$

b. $\frac{16}{4} = \frac{100}{x}$

3. Determine if each rectangle is a scale drawing of the given rectangle. Explain why or why not.

