Name: _____ Date: _____ Period: _____

Adding and Subtracting Rational Numbers

For each problem below, use your integer rules to solve. In order to receive credit, you must show all of your work. Circle your final answer.

1) $\frac{2}{3} + \frac{5}{6}$

2) $\frac{1}{4} - \frac{7}{16}$

3) $-\frac{3}{4} + \frac{1}{6}$

4) $-\frac{6}{10} - 1\frac{3}{10}$

5) 2.78 + (-3.4)

6) -40.5 + 7.62

7) -8.15 + (-4.3) + (-0.92)

8) 8.91 – 17.3 + 19.5

9) $-2\frac{2}{5} + 4.8$

10) $2.6 + -\frac{7}{8}$

11) 8.65 – (-4.73)

12) -8.65 – (-4.73)

13) $-1.6 + 1\frac{7}{10} - 2.53$

14) $3\frac{3}{7} - (-1\frac{1}{7}) + \frac{3}{7}$

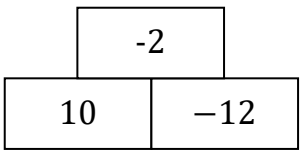
15) $7\frac{1}{10} + (-7.25) - 11.39$

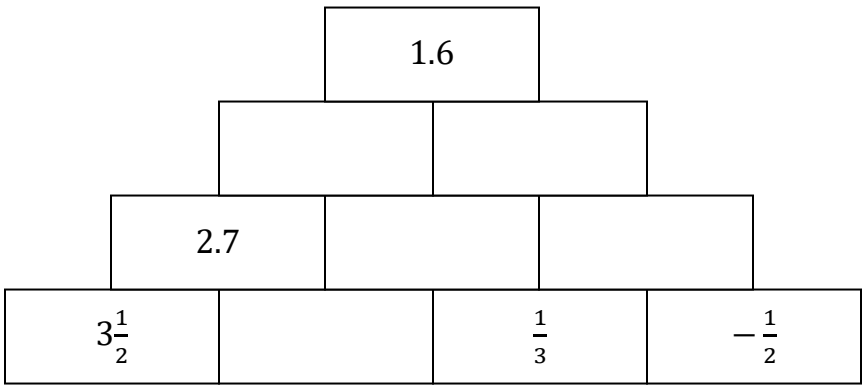
16) $3\frac{3}{10} + -3.38 - 6\frac{6}{10}$

17) $12\frac{1}{9} - (-5\frac{2}{3}) - (-6.5)$

18) $19.25 - 7\frac{1}{8} + 3\frac{5}{12}$

PERSEVERE IN PROBLEM SOLVING: The tower below is built by a sum of bricks! Each brick's value can be found by finding the sum of two bricks below it (see example below). Can you find the value of the missing bricks?





PUZZLE - BONUS: Find a path through the table so that the numbers add up to the sum. You can move horizontally or vertically.

Sum: $\frac{3}{4}$

Start →

$\frac{1}{2}$	$\frac{2}{3}$	$-\frac{5}{7}$
$-\frac{1}{8}$	$-\frac{3}{4}$	$\frac{1}{3}$

← End

Sum: - 0.07

Start →

2.43	1.75	−0.98
−1.09	3.47	−4.88

← End

		1.6	
	$2\frac{7}{30}$		$-\frac{19}{30}$
2.7		$-\frac{7}{15}$	$-\frac{1}{6}$
$3\frac{1}{2}$	−0.8	$\frac{1}{3}$	$-\frac{1}{2}$