2.2-2.3

Review

DO NOW

Tell whether the sum is positive, negative, or zero without adding. Explain your reasoning.

1. **-8 + 20**

2. **30 + (-30)**

3. **-10 + (-18)**

Rational Numbers CHEAT SHEET:

Changing Fractions into Decimals:

*If there is a whole number part, that will be the whole number(to the left of the decimal).

1. Use Long Division to divide the fraction: divide the numerator by the demoninator.
2. The decimal will either *terminate* or *repeat*.

Changing Decimals into Fractions:

*If there is a whole number part, that will be the whole number in the mixed number fraction.

1. Write the digits after the decimal in the numerator.
2. Write the place value of the last digit in the denominator.
3. Simplify the fraction, if needed.

Adding Fractions:

Remember when Adding Fractions: 
Convert all to mixed numbers first, then add.

1. Write up and down.
2. Find the lowest common denominator (LCD).
3. Are the signs the *same* or *different*?

Same:	Different:
-Add	-Subtract the small from the big
-Answer gets the same sign	(*Cannot subtract a bigger numerator from a smaller numerator: you have to BORROW a whole)
	-Answer gets the sign of the big

4. Reduce.

Subtracting Fractions:

1. ADD THE OPPOSITE! First number stays the same.
2. Follow steps for adding fractions.

Adding Decimals:

1. Write up and down. (*Add zeros to make decimal places line up evenly.)
2. Line up the decimal!
3. Are the signs the *same* or *different*?

Same:	Different:
-Add	-Subtract the small from the big
-Answer gets the same sign	-Answer gets the sign of the big

Subtracting Decimals:

1. ADD THE OPPOSITE! First number stays the same.
2. Follow steps for adding decimals.

Practice

Change the fraction into a decimal:

1) $1\frac{5}{6}$

Practice

Change the decimal into a fraction:

2) -2.32

Practice

Add the fractions:

3) $-\frac{3}{5}+\left(-\frac{9}{7}\right)$