



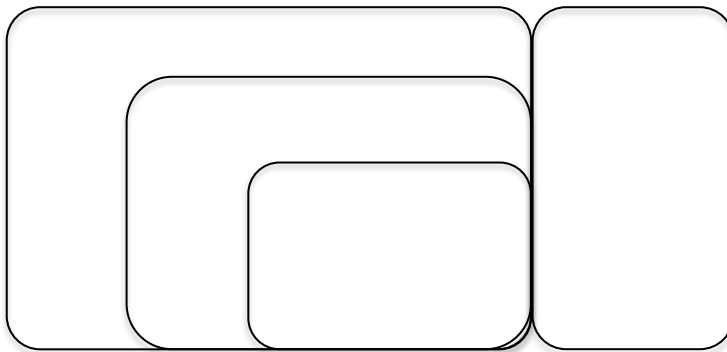
Goal:

Warm up: Complete each mathematical sentence and then provide two examples.

- a. odd + odd = _____, e.g. _____
- b. even + even = _____, e.g. _____
- c. odd + even = _____, e.g. _____
- d. fraction + fraction = _____, e.g. _____
- e. Create your own:

I. Classifying Real Numbers

- a. Whole numbers: _____
- b. Integers: _____
- c. Rational numbers: _____
- d. Irrational numbers: _____
- e. Real numbers: _____



Classify each number as specific as possible.

1. -23

2. 33.4

3. $\sqrt{17}$

4. 1,025

5. $0.\overline{4}$

II. Divisibility Rules

When dividing an integer by an integer, there are ways to determine in one will divide evenly into the other.

Number	Rule	Examples
2		
3		
4		
5		
6		
8		
9		
10		

Test to see which if the numbers on the left are divisible by the top. If so, place a check in the box

	2	3	4	5	6	8	9	10
789								
12,120								
360								
987,654								
6,230								
48								
59,940								
255								
552								
525								
3,560								

III. Properties of Real Numbers

Property	Addition	Multiplication	Does not work for...
C_____			
C_____			
A_____			
I_____			
I_____			
D_____			

Identify the property that is being used.

1. $2(3-8)=2\cdot3-2\cdot8$ 2. $5+\left(3+\frac{1}{2}\right)=(5+3)+\frac{1}{2}$ 3. $(72+a)+3=3+(72+a)$

4. $-3+3=0$ 5. $-3\left(-\frac{1}{3}\right)=1$ 6. $x(x+3)=x^2+3x$ 7. $5+0=5$

8. $8(1)=8$ 9. $13\left(\frac{1}{13}\right)+0=0+13\left(\frac{1}{13}\right)$ 10. $3(x+4)=3(4+x)$