

Expressions, Equations and Inequalities Guided Notes

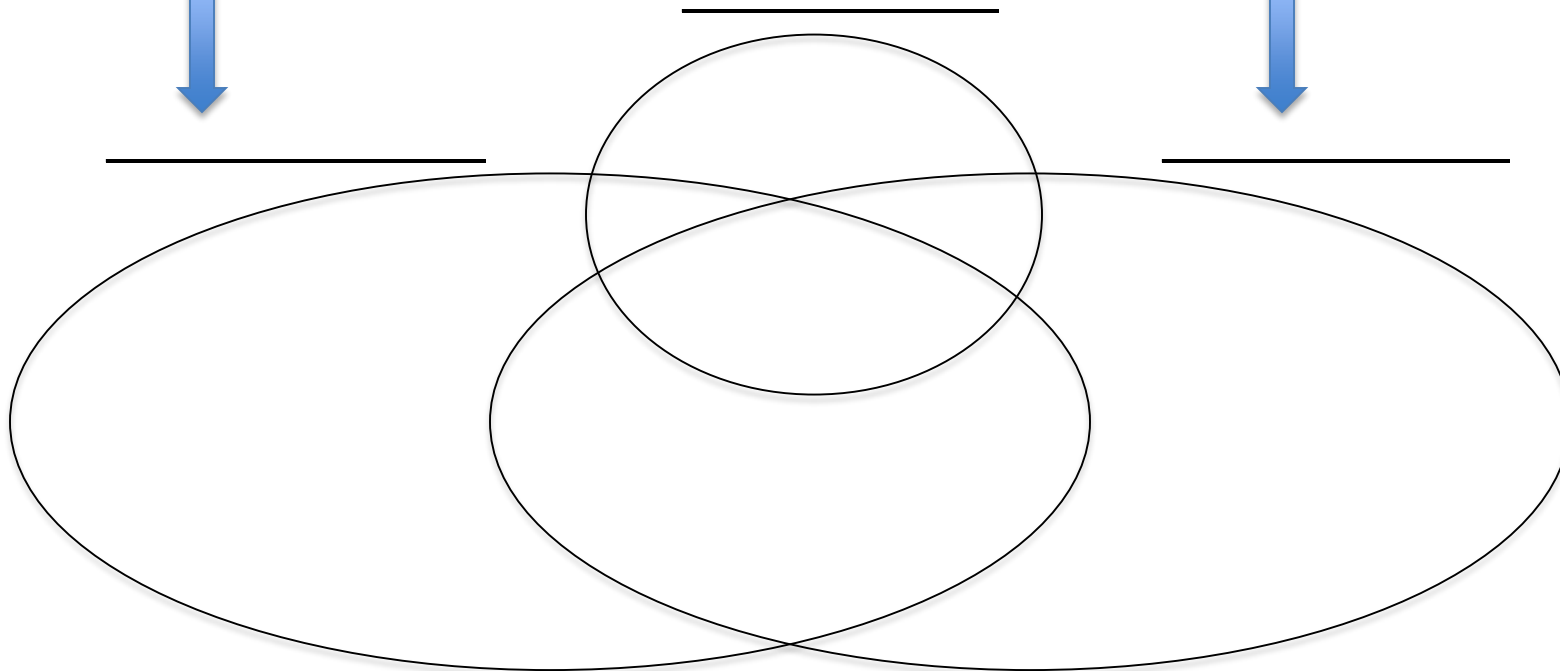
$$3y^2 + 2y - 3 = 30$$



$$5n - (8 \div 2)$$



$$7m - m^3 > 6$$



List characteristics of each “item” above and then create a Venn diagram to compare and contrast similarities and differences.

I. Categorize each of the following mathematical “items” into the proper columns:

$5x + 3x + 2x$ 45 $45x - 4 = 86$ $4 + 9y > 36$ $5 - 3 + 12 \times 2$ $9 < 23b$

$t - 7 = 7$ $2w + 3 = 23$ $98 \div 2x \leq 14$ $u - 5 \geq 12$ $5d - d + b$ $7g = \frac{10}{2g}$

Expressions	Equations	Inequalities

II. Write each “statement” mathematically and identify it as an expression, equation, or inequality:

1. Each fountainhead had two nozzles each and there were 5 faucets.
- _____.
2. All three of the fountainheads sprayed out the same amount of water, which totaled twelve thousand gallons of water.
- _____.
3. The two filters processed at least five-hundred-thousand gallons of water a week.
- _____.