Card Activity: GCF.

Part I. For this part, you will pick two of the cards. Write as a sum or difference (following the directions for each number) and then factor out the GFC.

Problem	Write:	Factor out the GCF
1	1st card + 2nd Card: $15x^5 + 12y^2$	
2	1st card + 2nd Card: $2xy + 12x^3y$	
3	1st card – 2nd Card: $10xy^3 - 2x$	
4	1st card – 2nd Card: $24x^2y^2 - 12x^2y$	

Part I. For this part, you will pick three of the cards. Write as a sum or difference (following the directions for each number) and then factor out the GFC.

Problem	Write:	Factor out the GCF
5	1st card + 2nd Card + 3rd Card $4y + 36 + 3y^2x^3$	
6	1st card + 2nd Card – 3rd Card $2x^2 + 8 - 12y^5$	

7	1st card – 2nd Card + 3rd Card: $-8xy^2 - 10xy^3 + 2xy$	
8	1st card – 2nd Card – 3rd Card: $12x^2y - 2x^2 - 4y$	
9	1st card – 2nd Card: $3y^2x^3 - 24x^2y^2$	

Part I. For this part, you will pick 4 of the cards. Write as a sum or difference (following the directions for each number) and then factor out the GFC.

Problem	Write:	Factor out the GCF
10	1st card – 2nd Card + 3rd Card – 4th Card: $-8xy^2 - 12y^5 + 8 - 24x^2y^2$	
11	1st card + 2nd Card + 3rd Card – 4th Card: $2xy + 12x^3y + 15x^5 - 10xy^3$	
12	1st card + 2nd Card – 3rd Card – 4th Card: $3y^2x^3 + 12y^2 - 2x - 36$	