2.4 – E- Removing the common factor	Why are there <u>60 seconds</u> in a minute, why not 100?
A Factor is an integer that divides evenly into another number. The factors of 6 are	Factors of 60:
The factors of 24 are	The Babylonians realized 60 is more convenient for their number system! (More factors)
 The Greatest Common Factor (GCF) of a polynomial: is the largest factor that divides evenly into each term. Factoring is the exact opposite of expanding. We expand a product and factor a sum. To factor by removing the Greatest Common Factor: Find the GCF→ the gcf of the coefficients , and the gcf of the variables	Ex 1: Find the gcf a) 8 , 16 , 40 b) $6x^2$, $24x^3$, $12x^4$ c) $28x^2y^2$, $14x^3y^2$, $21x^2y^3$ d) $15a^6b^7$, $3a^3b^5$, $21a^6b^4$
Ex 2: Factor by removing the gcf a) $5x + 10y - 15$ b) $12x^2 - 8x$	Ex 3: Factor by pulling out the GCF 4x+6= 9x-15= 6x ² +10x= 49x ³ y ² - 21x ² y ² + 14x ³ y ³ = 2a ² b ² -6ab ³ +4ab ² = x(x+3) + 2(x+3)= x(x+3) + 2(x+3)=

Practice: P. 67 # 44 – 47



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