7th Date February 1st

Part I Write the prime factors of each number (

1. 80
2. 24
3. 66
4. 34
5. 125
6. 130

Part II Factor the monomial

1. $42a^{4}b^{2}$
2. $56z^{4}y$
3. $25r^{2}s^{2}$
4. $120w^{6}z$

Part III Find the greatest common factor using prime factorization show all steps

1. 18,36
2. 12,40,68
3. 45, 18, 90

Part IV write each fraction in it’s simplest te

1. $\frac{12}{21}$
2. $\frac{30}{72}$

Part V Simplify each monomial (2pts each)

1. $\frac{8ab}{6b^{2}}$
2. $\frac{5cd}{2d}$
3. $\frac{8xy}{2x^{ y}}$
4. $\frac{30m^{2 }n}{10m^{2}}$

Part VI Find The LCM of each number.(3pts each)

1. 4,8
2. 9,18
3. 8,16
4. $3s, s^{2}$
5. $36m^{2}, 9m$
6. $4g^{3}h^{2}$,$15g^{2}h^{4}$

VII Find the product and write your answer using exponents

1. $2^{2 }$ \* $2^{4}$
2. $1.6b^{2 }$ \* $b^{4}$
3. $\frac{4x^{8}}{10x^{2}}$
4. $(b^{7 })(b^{2} )$
5. $3n^{2 }$ \* $6n^{4}$

Part VII Write the expressions using only positive exponents

1. $12^{-4}$
2. 15 $d^{-9}$
3. $8c^{-3}$
4. $2^{2 }$ \* $2^{-4}$
5. 18 $d^{-1}$
6. $\frac{15b^{-5}}{3b^{4}}$

Part IX Write each number in scientific notation

1. 4,100
2. 0.000067
3. 34,600,000
4. 0.0000245

 Part IX Write each number in standard form

1. $7.1x 10^{4}$
2. $1.91 x 10^{-3}$
3. $1.85 x 10^{6}$
4. $3.29 x 10^{-4}$