

Prime Factorization/GCF/LCM Homework

Name _____

Period _____

1. Find the GCF of 12 and 32

2. Find the LCM of 4 and 6

3. Find the GCF of 18 and 20

4. Find the LCM of 5 and 9

5. Find the LCM of 3 and 12

6. Find the GCF of 24 and 36

7. Find the GCF of 72 and 24

8. Find the LCM of 6 and 10

Find the Prime Factorization of the following in EXPONENT FORM. Hint: Do a Factor Tree.

54

36

32

120

108

1. Find the GCF of 12 and 32

2	12	32
2	6	16
	3	8

GCF = 4

2. Find the LCM of 4 and 6

4: 4, 8, 12, 16, 20, 24, 28, 32

6: 6, 12

LCM = 12

3. Find the GCF of 18 and 20

2	18	20
	9	10

GCF = 2

4. Find the LCM of 5 and 9

5: 5, 10, 15, 20, 25, 30, 35, 40, 45

9: 9, 18, 27, 36, 45

LCM = 45

5. Find the LCM of 3 and 12

3: 3, 6, 9, 12, 15, 18, 21

12: 12

LCM = 12

6. Find the GCF of 24 and 36

2	24	36
2	12	18
3	6	9
	2	3

GCF = 12

7. Find the GCF of 72 and 24

2	72	24
2	36	12
2	18	6
3	9	3
	3	1

GCF = 24

$$\begin{array}{r} 36 \\ 2 \overline{) 72} \\ \underline{-6} \\ 12 \end{array}$$

8. Find the LCM of 6 and 10

6: 6, 12, 18, 24, 30

10: 10, 20, 30

LCM = 30

Find the Prime Factorization of the following in EXPONENT FORM. Hint: Do a Factor Tree.

