

Quiz 2

List the factor pairs

1.) 36

1	36
2	18
3	12
4	9
6	6

Write the Prime Factorization

2.) 48

$$48 = 2 \cdot 2 \cdot 2 \cdot 2 \cdot 3$$

$$\begin{array}{r}
 2 \overline{) 48} \\
 \underline{24} \\
 2 \overline{) 24} \\
 \underline{12} \\
 2 \overline{) 12} \\
 \underline{6} \\
 2 \overline{) 6} \\
 \underline{3} \\
 3 \overline{) 3} \\
 \underline{1}
 \end{array}$$

1.5 Greatest Common Factor pg 30

Greatest Common Factor:

4: 1, 2, 4
8: 1, 2, 4, 8

GCF=4

Largest #
that can be
divided into
the original #

Example 1: Find GCF

a.) 8, 36

8	
1	8
2	4

36	
1	36
2	18
3	12
4	9
6	6

$$\text{GCF} = 4$$

*have to write this

b.) 20, 45

$$\begin{array}{r|l} 20 & \\ \hline 1 & 20 \\ 2 & 10 \\ 4 & \textcircled{5} \end{array} \qquad \begin{array}{r|l} 45 & \\ \hline 1 & 45 \\ 3 & 15 \\ \textcircled{5} & 9 \end{array}$$

$$\text{GCF} = 5$$

c.) 45, 75, 120

45	
1	45
3	15
5	9

75	
1	75
3	25
5	15

120	
1	120
2	60
3	40
4	30
5	24
6	20
8	15
10	12

$$\text{GCF} = 15$$

1

Ignore the directions:

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