MathVine - Pre-Algebra Name_____

Listing Factors Date_____ Period_____

List all factors of the given number.

		factors
1.	79	
2.	14	
3.	97	
4.	36	
5.	93	
6.	86	
7.	37	
8.	29	
9.	24	
10.	4	
11.	64	
12.	23	

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Listing Factors Date_____ Period_____

List all factors of the given number.

		factors
1.	79	1 and 79
2.	14	1, 2, 7 and 14
3.	97	1 and 97
4.	36	1, 2, 3, 4, 6, 9, 12, 18 and 36
5.	93	1, 3, 31 and 93
6.	86	1, 2, 43 and 86
7.	37	1 and 37
8.	29	1 and 29
9.	24	1, 2, 3, 4, 6, 8, 12 and 24
10.	4	1, 2 and 4
11.	64	1, 2, 4, 8, 16, 32 and 64
12.	23	1 and 23

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Solution Steps

1) 79

We need to find all whole number pairs whose product is 79
$1 * 79 = 79$

The factors of 79 are $1 \text{ and } 79$

2) 14

We need to find all whole number pairs whose product is 14
$1 * 14 = 14$
$2 * 7 = 14$

The factors of 14 are $1, 2, 7 \text{ and } 14$

3) 97

We need to find all whole number pairs whose product is 97
$1 * 97 = 97$

The factors of 97 are $1 \text{ and } 97$

4) 36

We need to find all whole number pairs whose product is 36
$1 * 36 = 36$
$2 * 18 = 36$
$3 * 12 = 36$
$4 * 9 = 36$

The factors of 36 are $1, 2, 3, 4, 6, 9, 12, 18 \text{ and } 36$

5) 93

We need to find all whole number pairs whose product is 93
$1 * 93 = 93$
$3 * 31 = 93$

The factors of 93 are $1, 3, 31 \text{ and } 93$

6) 86

We need to find all whole number pairs whose product is 86
$1 * 86 = 86$
$2 * 43 = 86$

The factors of 86 are $1, 2, 43 \text{ and } 86$

7) 37

We need to find all whole number pairs whose product is 37
$1 * 37 = 37$

The factors of 37 are $1 \text{ and } 37$

8) 29

We need to find all whole number pairs whose product is 29
$1 * 29 = 29$

The factors of 29 are $1 \text{ and } 29$

9) 24

We need to find all whole number pairs whose product is 24
$1 * 24 = 24$
$2 * 12 = 24$
$3 * 8 = 24$
$4 * 6 = 24$

The factors of 24 are $1, 2, 3, 4, 6, 8, 12 \text{ and } 24$

10) 4

We need to find all whole number pairs whose product is 4
$1 * 4 = 4$

The factors of 4 are $1, 2 \text{ and } 4$

11) 64

We need to find all whole number pairs whose product is 64
$1 * 64 = 64$
$2 * 32 = 64$
$4 * 16 = 64$

The factors of 64 are $1, 2, 4, 8, 16, 32 \text{ and } 64$

12) 23

We need to find all whole number pairs whose product is 23
$1 * 23 = 23$

The factors of 23 are $1 \text{ and } 23$