MathVine - Pre-Algebra Name_____

Listing Factors Date_____ Period_____

List all factors of the given number.

		factors
1.	90	
2.	43	
3.	76	
4.	26	
5.	8	
6.	12	
7.	95	
8.	10	
9.	55	
10.	78	
11.	97	
12.	33	

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List all factors of the given number.

		factors
1.	90	1, 2, 3, 5, 6, 9, 10, 15, 18, 30, 45 and 90
2.	43	1 and 43
3.	76	1, 2, 4, 19, 38 and 76
4.	26	1, 2, 13 and 26
5.	8	1, 2, 4 and 8
6.	12	1, 2, 3, 4, 6 and 12
7.	95	1, 5, 19 and 95
8.	10	1, 2, 5 and 10
9.	55	1, 5, 11 and 55
10.	78	1, 2, 3, 6, 13, 26, 39 and 78
11.	97	1 and 97
12.	33	1, 3, 11 and 33

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Solution Steps

1) 90

We need to find all whole number pairs whose product is 90
$1 * 90 = 90$
$2 * 45 = 90$
$3 * 30 = 90$
$5 * 18 = 90$
$6 * 15 = 90$
$9 * 10 = 90$

The factors of 90 are $1, 2, 3, 5, 6, 9, 10, 15, 18, 30, 45 \text{ and } 90$

2) 43

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

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

3) 76

We need to find all whole number pairs whose product is 76
$1 * 76 = 76$
$2 * 38 = 76$
$4 * 19 = 76$

The factors of 76 are $1, 2, 4, 19, 38 \text{ and } 76$

4) 26

We need to find all whole number pairs whose product is 26
$1 * 26 = 26$
$2 * 13 = 26$

The factors of 26 are $1, 2, 13 \text{ and } 26$

[5] 8

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

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

[6] 12

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

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

[7] 95

We need to find all whole number pairs whose product is 95
$1 * 95 = 95$
$5 * 19 = 95$

The factors of 95 are $1, 5, 19 \text{ and } 95$

[8] 10

We need to find all whole number pairs whose product is 10
$1 * 10 = 10$
$2 * 5 = 10$

The factors of 10 are $1, 2, 5 \text{ and } 10$

[9] 55

We need to find all whole number pairs whose product is 55
$1 * 55 = 55$
$5 * 11 = 55$

The factors of 55 are $1, 5, 11 \text{ and } 55$

10) 78

We need to find all whole number pairs whose product is 78
$1 * 78 = 78$
$2 * 39 = 78$
$3 * 26 = 78$
$6 * 13 = 78$

The factors of 78 are $1, 2, 3, 6, 13, 26, 39 \text{ and } 78$

11) 97

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

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

12) 33

We need to find all whole number pairs whose product is 33
$1 * 33 = 33$
$3 * 11 = 33$

The factors of 33 are $1, 3, 11 \text{ and } 33$