

Listing Factors

Date _____ Period _____

List all factors of the given number.

1. 82

1, 2, 41 and 82

2. 75

1, 3, 5, 15, 25 and 75

3. 74

1, 2, 37 and 74

4. 90

1, 2, 3, 5, 6, 9, 10, 15, 18, 30, 45 and 90

5. 39

1, 3, 13 and 39

6. 92

1, 2, 4, 23, 46 and 92

7. 64

1, 2, 4, 8, 16, 32 and 64

8. 33

1, 3, 11 and 33

9. 36

1, 2, 3, 4, 6, 9, 12, 18 and 36

10. 76

1, 2, 4, 19, 38 and 76

11. 30

1, 2, 3, 5, 6, 10, 15 and 30

12. 94

1, 2, 47 and 94

Solution Steps

$$1) \quad 82$$

We need to find all whole number pairs whose product is 82

$$1 * 82 = 82$$

$$2 * 41 = 82$$

The factors of 82 are 1, 2, 41 and 82

$$2) \quad 75$$

We need to find all whole number pairs whose product is 75

$$1 * 75 = 75$$

$$3 * 25 = 75$$

$$5 * 15 = 75$$

The factors of 75 are 1, 3, 5, 15, 25 and 75

$$3) \quad 74$$

We need to find all whole number pairs whose product is 74

$$1 * 74 = 74$$

$$2 * 37 = 74$$

The factors of 74 are 1, 2, 37 and 74

$$4) \quad 90$$

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 and 90

⁵⁾ 39

We need to find all whole number pairs whose product is 39

$$1 * 39 = 39$$

$$3 * 13 = 39$$

The factors of 39 are 1, 3, 13 and 39

⁶⁾ 92

We need to find all whole number pairs whose product is 92

$$1 * 92 = 92$$

$$2 * 46 = 92$$

$$4 * 23 = 92$$

The factors of 92 are 1, 2, 4, 23, 46 and 92

⁷⁾ 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 and 64

⁸⁾ 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 and 33

⁹⁾ 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 and 36

¹⁰⁾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 and 76

¹¹⁾30

We need to find all whole number pairs whose product is 30

$$1 * 30 = 30$$

$$2 * 15 = 30$$

$$3 * 10 = 30$$

$$5 * 6 = 30$$

The factors of 30 are 1, 2, 3, 5, 6, 10, 15 and 30

¹²⁾94

We need to find all whole number pairs whose product is 94

$$1 * 94 = 94$$

$$2 * 47 = 94$$

The factors of 94 are 1, 2, 47 and 94