**Proper Factors**

**Factors** are the numbers you multiply to get another number.

\[ 2 \times 3 = 6 \quad \text{2 and 3 are factors of 6.} \]
\[ 1 \times 6 = 6 \quad \text{1 and 6 are also factors of 6.} \]

What are the factors of 6? 1, 2, 3, and 6

**Proper Factors** are the factors of a number other than the number itself.

What are the proper factors of 6? 1, 2, and 3

A **prime number** only has two factors: one and itself.

7 is a prime number because its only two factors are 1 and 7.

Therefore, a prime number only has one proper factor: 1.

The only proper factor of 7 is 1.

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**a.** List all of the factors for the number 9.  
List all of the proper factors of 9.

**b.** List all of the factors for the number 20.

**c.** List all of the factors for the number 17.

**d.** List all of the factors for the number 4.

**e.** List all of the proper factors of 14.

**f.** List all of the proper factors of 30.

**g.** List all of the proper factors of 2.

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What are the factors of 6? 1, 2, 3, and 6

**Proper Factors** are the factors of a number other than the number itself.

What are the proper factors of 6? 1, 2, and 3

A **prime number** only has two factors: one and itself.

7 is a prime number because its only two factors are 1 and 7.

The only proper factor of 7 is 1.

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**a.** List all of the factors for the number 9. 1, 3, 9

**b.** List all of the proper factors of 9. 1 and 3

**c.** List all of the factors for the number 20. 1, 2, 4, 5, 10, 20

**d.** List all of the proper factors of 20. 1, 2, 4, 5, 10

**e.** List all of the proper factors of 17. 1

**f.** List all of the proper factors of 4. 1 and 2

**g.** List all of the proper factors of 14. 1, 2, 7

**f.** List all of the proper factors of 30. 1, 2, 3, 5, 6, 10, 15

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