

# ? How many factors can I find?

Explore



## Vocabulary

factors  
prime number  
factor tree



## Other Languages

English	tree
French	l'arbre
Spanish	un árbol



## Do You Know...

- ✓ Every number has at least 2 **factors**. Factors are numbers that, when multiplied together, form a unique product.
- ✓ A **prime number** is a number that has only 2 factors—itsself and 1.
- ✓ A **factor tree** is a diagram with branches that show a number's factors. Factor trees usually have prime numbers at the ends of the branches.



Dream~Makers

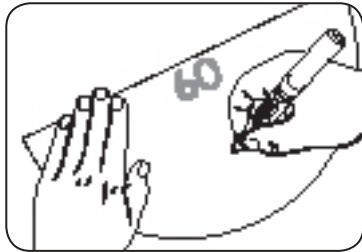


Math



## Create It!

Step  
2



### Branch Out

1. Cut paper into a large half-circle.
2. At the midpoint of the straight side, write a large number that is not prime (such as 24, 60, or 84).
3. Draw 2 lines branching out from the number. Write 2 factors, 1 at the bottom of each line.
4. Continue to split each factor at the bottom of the factor tree until all of the remaining factors are prime.
5. Write a multiplication equation around the rim of the circle using the prime numbers at the ends of the branches as the factors.
6. Roll the half circle into a cone and glue overlapping edges.



### Supplies

- Markers
- Glue Sticks
- Scissors
- Colored Paper



### Think About It

How many factors do you think 960 has? Make a factor tree to find out!