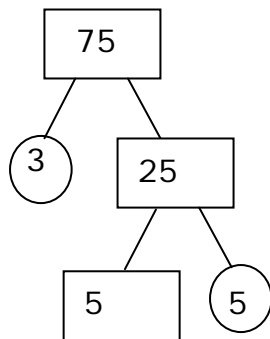


**Prime Factorization - Guided Lesson Explanation****Explanation#1**

Start by finding all the factors of 75. Factors are: (25,3)(15,5)

Both would work for this tree. Choose one.



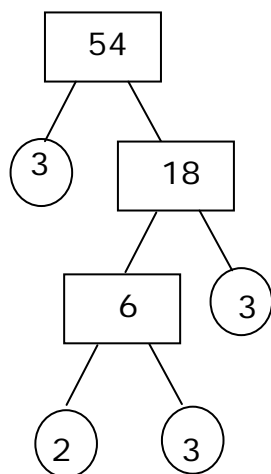
Factors

$$3 \times 5 \times 5 = 75$$

**Explanation#2**

Find all the factors of 54. (27,2)(18,3)(9,6)

This one is slightly tricky because one of the factors has to be able to be factored one step further. All of the factors would work except for 2 or 3. Choose one to work with.



Factors

$$3 \times 3 \times 2 \times 3 = 54$$



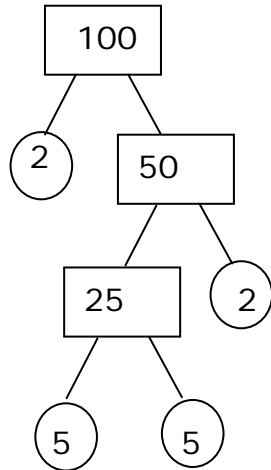
Name \_\_\_\_\_

Date \_\_\_\_\_

### Explanation#3

Find all the factors of 100. Factors include: (50,2)(25,4)(20,5)

All of these would work, choose one.



Factors

$$2 \times 2 \times 5 \times 5 = 100$$

