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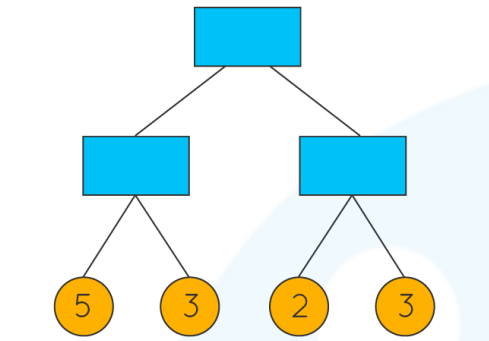
FACTOR TREE WORKSHEET-II

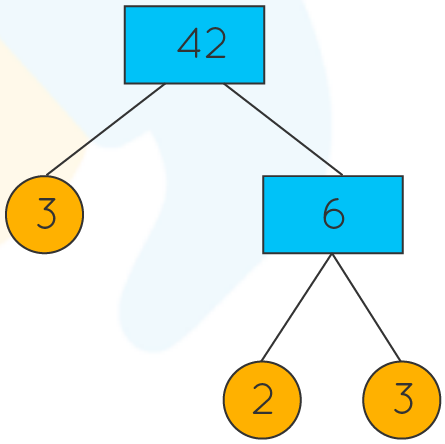
1) Calculate the prime factorization of 120 using factor tree. Write the answer in exponential form.

2) Fill in the blanks in the following factor tree to find the number and its prime factorization.



____ = ____ × ____ × ____ × ____

3) State whether true or false from your observations on the given factor tree.



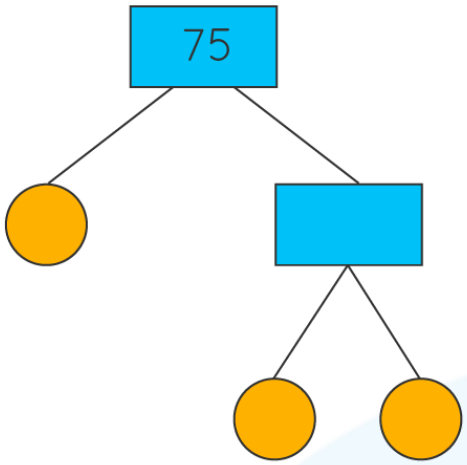
"42 has a total of 6 factors, 1, 2, 3, 6, 7, and 42."

4) Use a factor tree to find the prime factorization of 50.

a) 2 x 2 x 5 x 5
b) 2 x 2 x 5
c) 2 x 2 x 2 x 5
d) 2 x 5 x 5

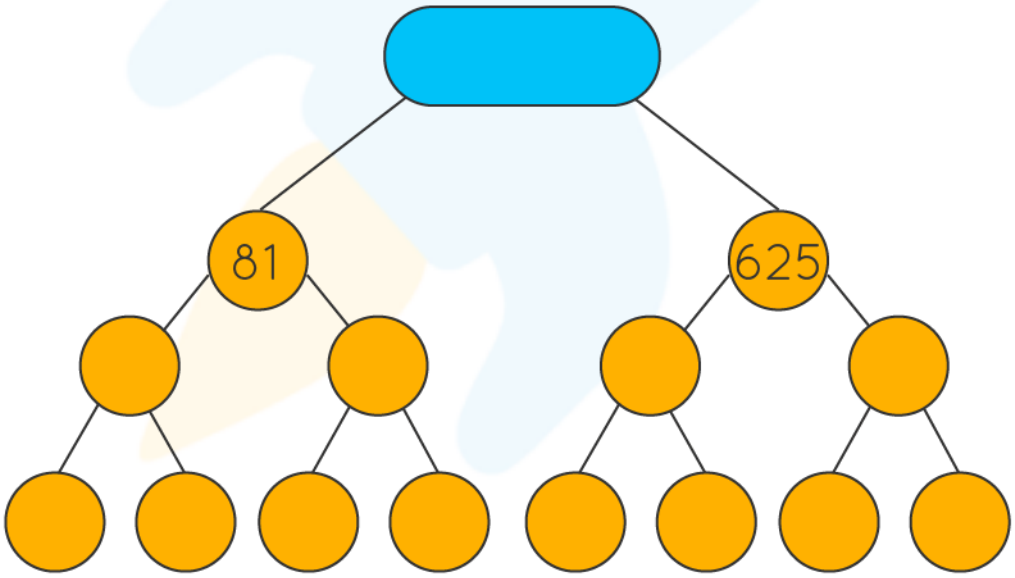
5) Draw the factor tree of 81 and find its prime factors.

6) Complete the factor tree of 75.



7) Draw the factor tree of 72 to find the values of a and b:
$72 = 2^a \times 3^b$.

8) Complete the following factor tree:



9) Find the prime factors of 128 using factor tree.

10) Write down the prime factorization of 225 using factor tree.

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- Barbara Cabrera

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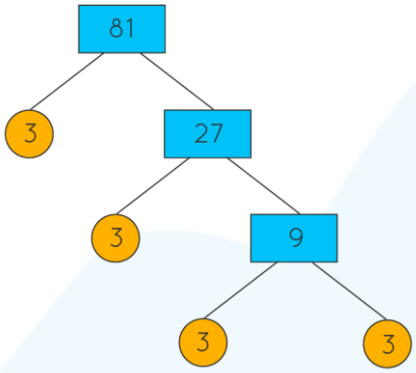
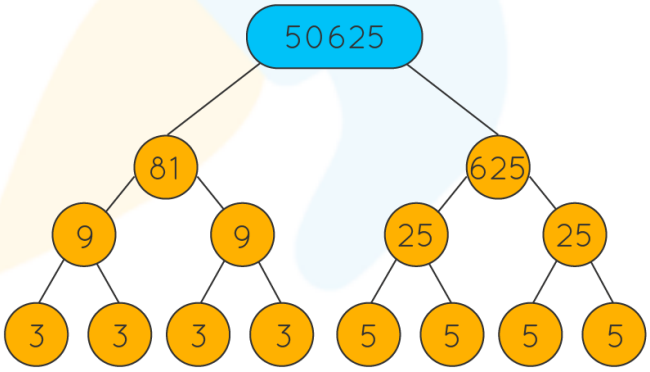
ANSWERS

1)	$120 = 2^3 \times 3 \times 5$
2)	90, 15, 6; $90 = 2 \times 3 \times 3 \times 5$
3)	False
4)	d)
5)	Factor Tree of 81  Prime factor of 81 = 3
6)	3, 25, 5, 5
7)	a=3; b=2
8)	
9)	Prime factor of 128 = 2
10)	$225 = 5^2 \times 3^2$

FUN FACT

1. All numbers that have 5 in the end have 5 as their **factor**.

2. **Factors** are always whole numbers or integers and never decimals or fractions.

3. All numbers greater than 0 and ending with a 0 will have 2, 5, and 10 as their **factors**.