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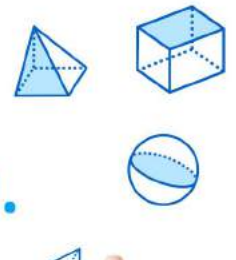

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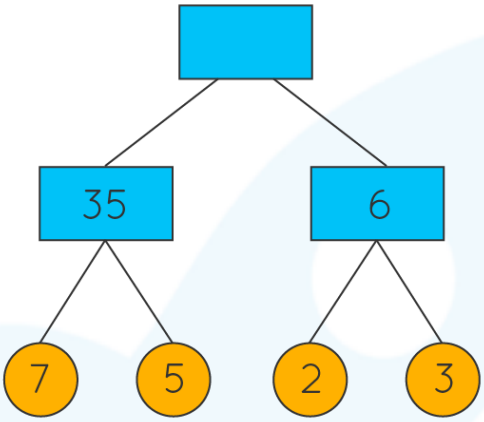
FACTOR TREE WORKSHEET-III

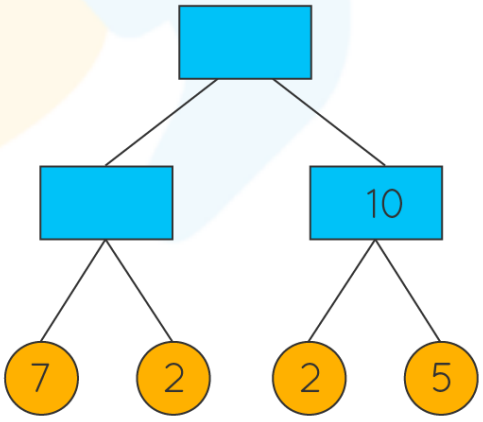
1) Draw the factor tree of 72 to find the values of a and b:
$56 = 2^a \times 7^b$

2) Find the number for which the following factor tree is given.



3) Draw the factor tree of greatest 2 digit multiple of 7.

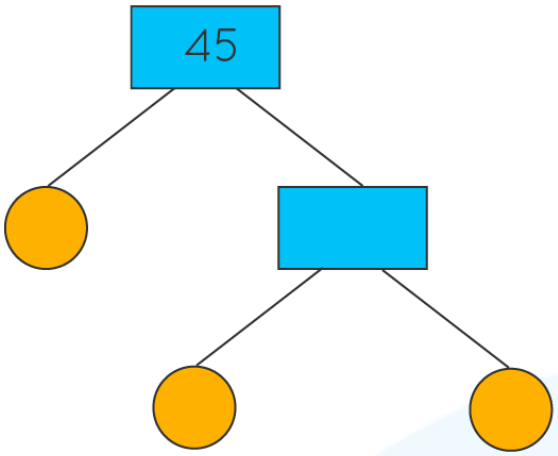
4) State whether true or false from your observations on the given factor tree.



"The factor tree given above is for number 150."

5) Draw the factor tree of 121 and calculate its square root.

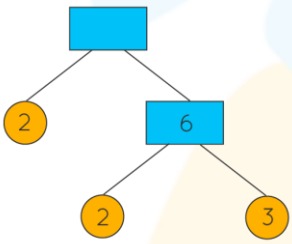
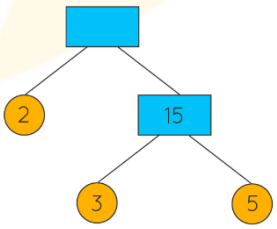
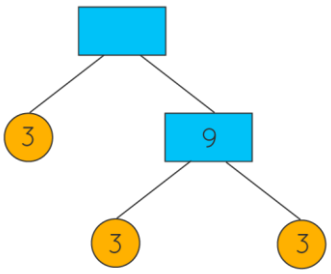
6) Complete the factor tree of 45.



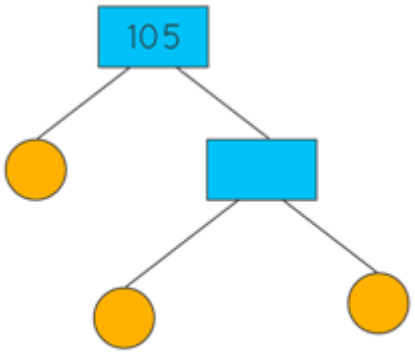
7) Using the factor tree of 104, find its positive factor pairs.

8) Determine whether 97 is a prime number or not.

9) Match the columns:

Factor Tree	Number
1. 	a. 27
2. 	b. 12
3. 	c. 30

10)Complete the following factor tree to pick the correct set of prime factors of 105.



a)5 × 3 × 7
b)3 × 7 × 11
c)5 × 5 × 12
d)7 × 11 × 5

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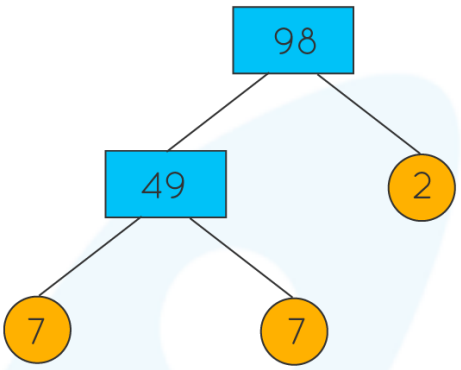
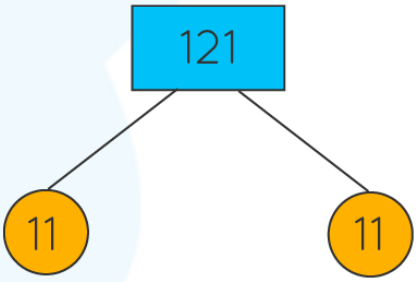
ANSWERS

1)	a = 3; b = 1
2)	210
3)	
4)	False
5)	Factors tree of 121  Square root of 121 = 11
6)	3, 15, 3, 5
7)	(1, 104), (2, 52), (4, 26), (8, 13)
8)	97 is a prime number.
9)	1--b; 2--c; 3--a
10)	a)

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FUN FACT

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

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

3. All numbers that end with 5 will have 5 as their **factor.**