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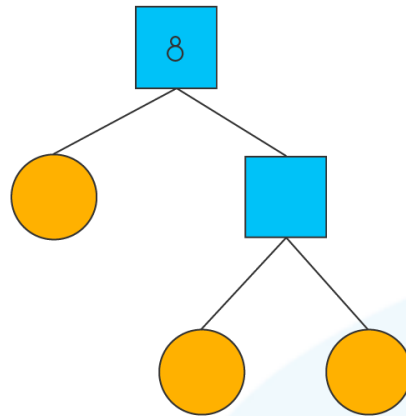
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FACTOR TREE WORKSHEET-I

1) Complete the following factor tree.



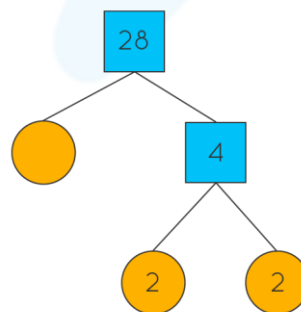
2) Find the factor tree of the given number: 45

3) Use a factor tree to find prime factorization of 24.

4) Determine which of the following is prime using a factor tree.

- a) 9
- b) 19
- c) 29
- d) 39

5) Find the missing factor.



6) Match the following columns:

Number	Prime Factorization
1. 45	a. 7×11
2. 32	b. $3 \times 3 \times 5$
3. 77	c. $2 \times 2 \times 2 \times 2 \times 2$

7) Fill in the blanks:

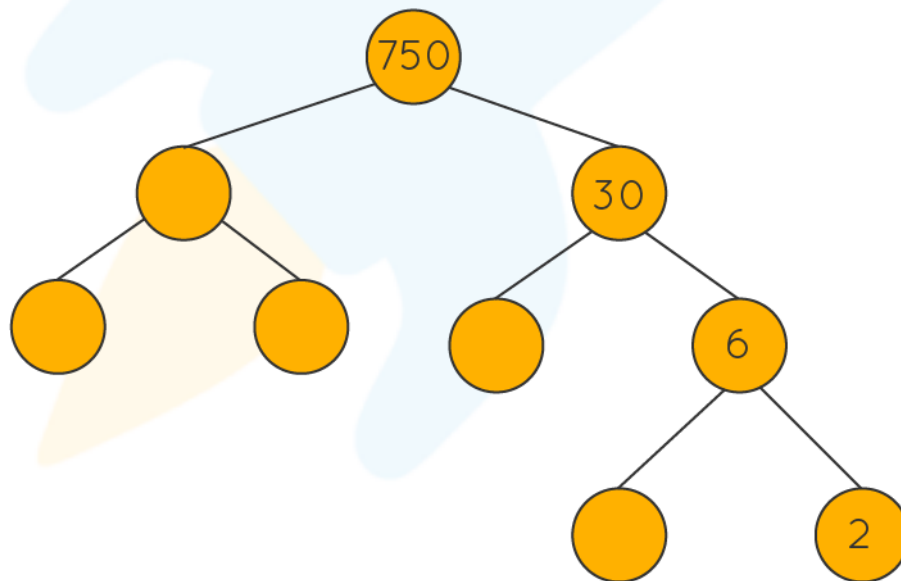
A _____ is a diagram used to breakdown a number by dividing it into its factors, until all the factors are primes.

- a) Product tree
- b) Factor tree
- c) Math tree
- d) Multiple tree

8) Determine all the composite factors of 24 using factor tree.

9) Draw the factor trees of 44 and 63, and find all the common factors.

10) Find all the missing factors:



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- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

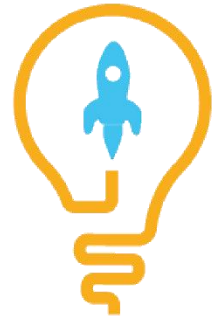
- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

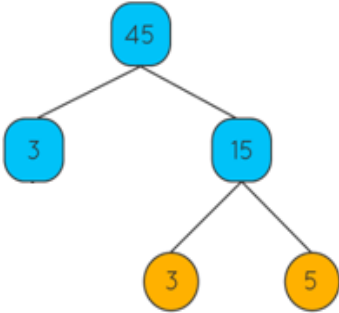
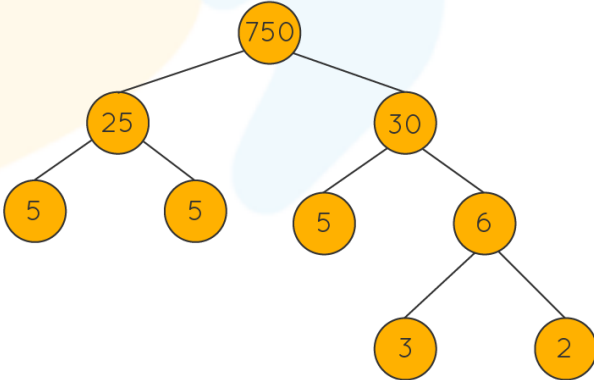
- Barbara Cabrera

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ANSWERS

1)	2, 4, 2, 2
2)	<p>Factor Tree of 45</p>  <pre> graph TD 45((45)) --- 3((3)) 45 --- 15((15)) 15 --- 3_2((3)) 15 --- 5((5)) </pre>
3)	$24 = 2^3 \times 3$
4)	b) 19 c) 29
5)	7
6)	1--b; 2--c; 3--a
7)	b) factor tree
8)	Composite factors of 24 = 4, 6, 8, 12, 24
9)	Common factor of 44 and 63 = 1
10)	 <pre> graph TD 750((750)) --- 25((25)) 750 --- 30((30)) 25 --- 5_1((5)) 25 --- 5_2((5)) 30 --- 5_3((5)) 30 --- 6((6)) 6 --- 3((3)) 6 --- 2((2)) </pre>

FUN FACT

1. Factors are always whole numbers or integers and never decimals or fractions.
2. All numbers that end with 5 will have 5 as their **factor**.
3. All numbers greater than 0 and ending with a 0 will have 2, 5, and 10 as their **factors**.

