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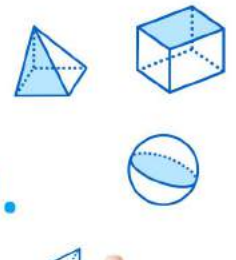

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FACTORS WORKSHEET - 4

1) Fill in the blanks in the prime factorization form:
   ___ = $2^4 \times 3^2$

2) Find a number which is a factor of 150 and lies between 32 and 60.

3) Write all the factors of the expression; $ab^2(c+d)$

4) James has a secret lucky number with him. He gives a few hints to his friend Sam to crack it. He says, "It is the number of common factors of 192 and 108. Find that lucky number.

5) Which of the following is the prime factorization form of 120
   a) $2^2 \times 3 \times 5^2$
   b) $2^4 \times 3^3 \times 5$
   c) $2^3 \times 3 \times 5$
   d) $2^3 \times 3 \times 5^2$

6) Find all the positive and negative factors of 12

7) Which of the following number is the factor of both the numbers 22 and 33
   a) 2 b) 3 c) 11 d) 8

8) State true or false

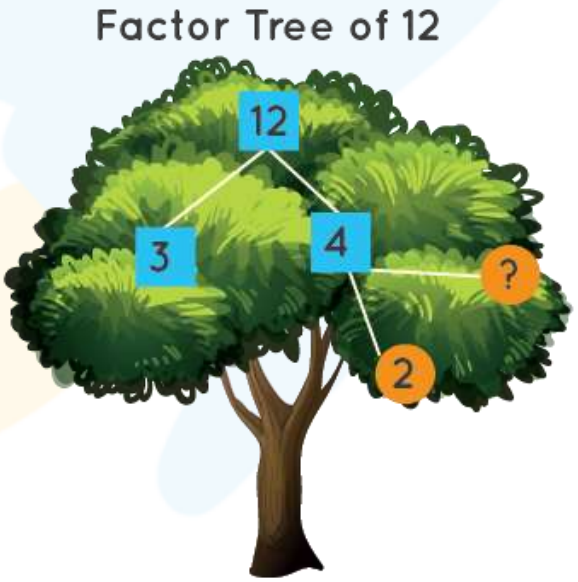
a) A number is a factor of itself.

b) The highest common factor of two numbers is called the HCF of those numbers.

9) Match the following

a) Prime factorization of 54	i) $2^2 \times 3^3$
b) Prime factorization of 36	ii) 2×3^3
c) Prime factorization of 108	iii) $2^2 \times 3^2$

10) Complete the factor tree shown below.



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"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."

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ANSWERS

1)	144
2)	50
3)	a, b, and (c+d)
4)	6
5)	d) $2^3 \times 3 \times 5^2$
6)	1, 2, 3, 4, 6, 12, -1, -2, -3, -4, -6, and -12
7)	c) 11
8)	a) True b) True
9)	a) → ii), b) → iii), c) → i)
10)	2

FUN FACT

1. The number is divides completely by its factors without leaving any remainder.

2. All the factors of a number are always less than or equal to the number.

3. The common factor between two or more co-prime cumbers is always 1.