

Subject: Maths

Class: Primary 7

Topic: Factors, Multiples, and HCF

Levels: Basic, Intermediate, Advanced

Level: Basic

1. List all the factors of the number 12. _____
2. Which of these is a factor of every number? (0, 1, 2, 5): _____
3. True or False: The number 7 is a prime number. _____
4. Find all the common factors of 8 and 20. _____
5. Aarav has 15 laddoos ●. List all possible group sizes he can make if each group has an equal number. _____
6. What is the largest factor of 50? _____
7. Find the prime factors of 10 using a factor tree. _____
8. Is 9 a factor of 81? Write 'Yes' or 'No'. _____
9. Circle the composite numbers: 2, 4, 11, 15, 19, 21.
10. The smallest prime number is _____.

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Level: Intermediate

1. Find the Highest Common Factor (HCF) of 24 and 36. _____
2. Write 60 as a product of its prime factors (e.g., $2^2 \times \dots$). _____
3. Aditi wants to divide 18 blue pens and 24 red pens into equal packets. What is the maximum number of pens in each packet? _____
4. Find the HCF of 45, 60, and 75. _____
5. Express 100 in prime factorization form using powers. _____
6. Two wires of lengths 12m and 16m are to be cut into pieces of equal length. What is the maximum length possible for each piece? _____
7. List all common factors of 14, 28, and 35. _____
8. Find the HCF of two consecutive even numbers (e.g., 8 and 10). _____
9. If the HCF of two numbers is 1, those numbers are called _____ numbers.
10. Check if 729 is divisible by 3 using the sum of digits rule. _____

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1. The HCF of two numbers is 12. If one number is 48, what is the smallest possible value for the other number? _____
2. Find the HCF of 144, 180, and 192 using the long division method. _____
3. A milkman has 45L of cow milk and 75L of buffalo milk. What is the maximum capacity of a container that can measure both exactly? _____
4. What is the HCF of $2^3 \times 3^2$ and $2^2 \times 3^3 \times 5$? _____
5. Rahul is tiling a floor of size 12ft by 15ft. What is the largest square tile size he can use without cutting? _____
6. Find the largest number that divides 33 and 45 leaving a remainder of 3 in each case. (Hint: Subtract 3 first). _____
7. Can the HCF of two numbers be greater than the numbers themselves? Explain. _____
8. Find the HCF of the first five prime numbers. _____
9. A rectangular courtyard is 18m 72cm long and 13m 20cm broad. It is to be paved with square tiles of the same size. Find the side of the largest tile. _____
10. Challenge: If n is a prime number, what are the factors of n^2 ? _____