

Subject: Maths

Class: 5

Topic: Factors, Multiples and Common Factors

Levels: Basic, Intermediate, Advanced

Level: Basic

1. Write all the factors of 12. (Hint: They divide 12 exactly) _____
2. Is 5 a factor of 45? Write Yes or No: _____
3. List the first five multiples of 7: _____, _____, _____, _____, _____
4. Every number is a multiple of 1 and _____.
5. Smallest multiple of 9 is _____.
6. Circle the even multiples of 3: 3, 6, 9, 12, 15, 18. ?
7. A number that has only two factors (1 and itself) is called a _____ number.
8. Find the common factors of 6 and 9: _____
9. True or False: 1 is a factor of every number. _____
10. Count the ? symbols: ? ? ? ? ?. Is this count a factor of 10? _____

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Level: Intermediate

1. Find the HCF (Highest Common Factor) of 15 and 20: _____
2. Ravi has ? 24. He wants to give equal change to his friends. List all possible group sizes: _____
3. What is the LCM (Least Common Multiple) of 4 and 6? _____
4. Write the first two common multiples of 5 and 10: _____
5. Is 144 a multiple of 12? (Show work: $144 \div 12$) _____
6. A shopkeeper sells pens in packets of 8. Can Anita buy exactly 36 pens? _____
7. Using the factor tree method, find prime factors of 18: $2 \times$ _____ $\times$ _____
8. Find the sum of the first three multiples of 10: _____
9. If ? represents a factor of 21 and $? > 10$, what is the value of ?? _____
10. Which number is a factor of every even number? _____

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1. Find the smallest number which is a multiple of 3, 4, and 5: _____
2. The HCF of two numbers is 6 and their LCM is 36. If one number is 12, find the other: _____
3. Meera has 28 orange sweets and 32 mango sweets. She wants to pack them equally. What is the largest number of sweets in each pack? _____
4. Find the sum of all factors of 24: _____
5. Check if 9 is a common factor of 81 and 108: _____
6. Write the prime factorization of 60 using exponents if possible (e.g., $2^2 \times 3 \times 5$): _____
7. Two bells ring at intervals of 12 mins and 15 mins. If they ring together now, after how many minutes will they ring together again? _____
8. Is the number of factors for 100 finite or infinite? _____
9. The area of a rectangle is 36 cm^2 . If the sides are whole numbers, list all possible pairs of (Length, Breadth): _____
10. Calculate ? is not needed here, but find the smallest 3-digit multiple of 13: _____