

Year 7 · 7.1 Positive Integers — Learning objectives

What students should be able to do by the end of this unit.

1. I can apply tests of divisibility for 2, 3, 4, 5, 6, 8, 9, and 10 to decide whether a number is divisible without calculating.
 2. I can identify and list multiples of any given number.
 3. I can recognise and evaluate powers (e.g. $2^3 = 8$) and roots (e.g. $\sqrt{169} = 13$), including the first few square and cube numbers.
 4. I can continue a number sequence using a term-to-term rule.
 5. I can find all the factors of a number and list them systematically.
 6. I can identify prime numbers and explain why a number is or is not prime.
 7. I can write a number as a product of its prime factors using a factor tree (e.g. $12 = 2 \times 2 \times 3$).
 8. I can find the Highest Common Factor (HCF) of two numbers using listing strategies.
 9. I can find the Lowest Common Multiple (LCM) of two numbers using listing strategies.
 10. I can use a Venn diagram to find HCF and LCM from prime factor decompositions.
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